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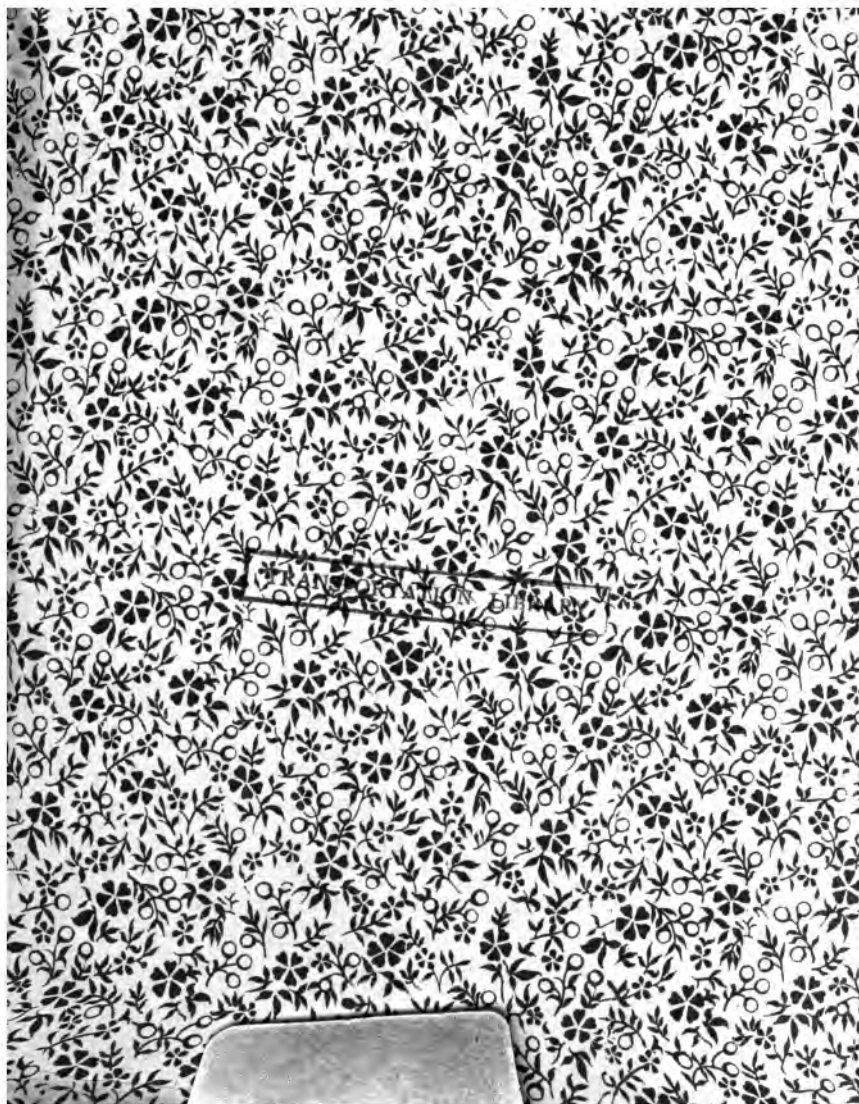
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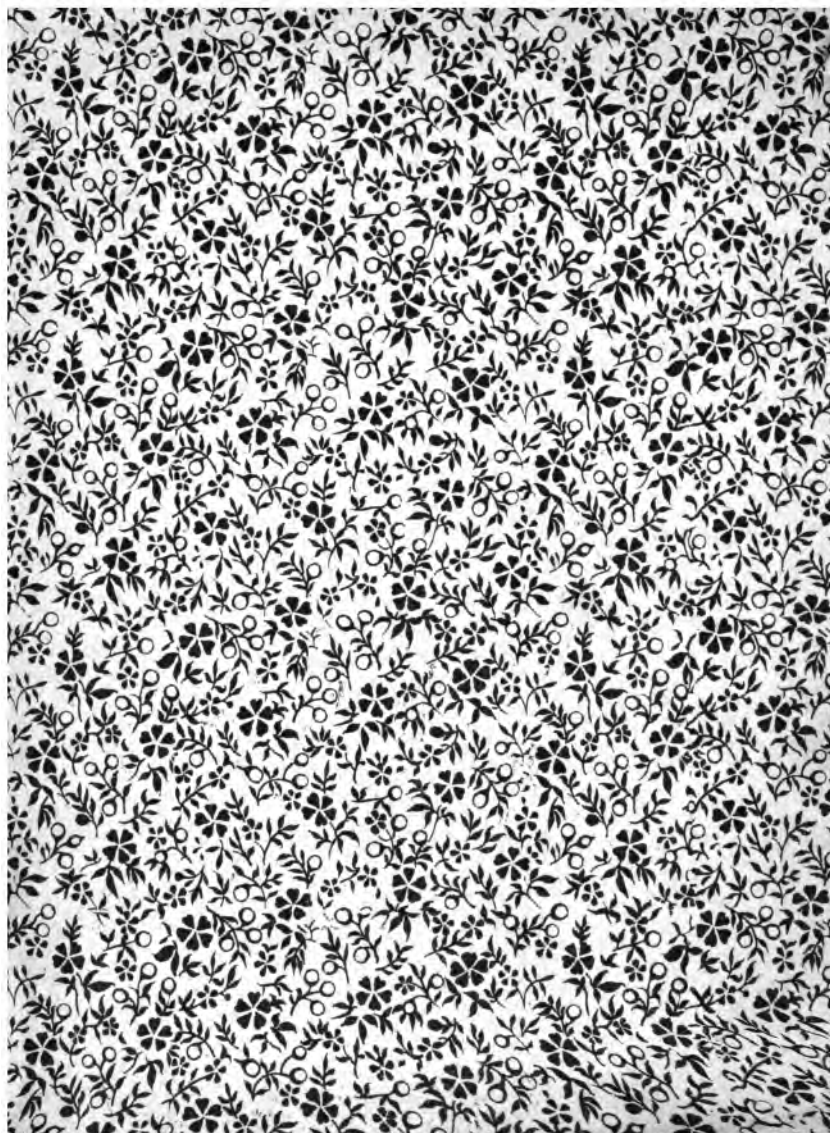
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C. V. Potter

A Directory

Of Names, Pennant Numbers and
Addresses of all Members of the

Ship Masters' Association of the Great Lakes

Also **A List** of Vessels of the
Great Lakes, American and
Canadian, with Names and Ad-
dresses of Owners.

Other Information of a Miscellaneous
Nature of Interest in Shipping Circles
on the Great Lakes.

TRANSPORTATION LIBRARY

April, 1904

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Marine Review Print, Cleveland

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356
904

A FEW NOTES OF INTRODUCTION TO THE
MEMBERS OF THE SHIP MASTERS' ASSOCIATION

In all the discussion regarding this directory at meetings of the Grand Lodge we hear but one complaint—that the book is not distributed early enough in the spring. It is satisfactory as to its contents, and the revenue that it brings to us is welcomed on all hands, but every year we have the same complaint about lateness of issue. On this score your secretary can only repeat what other secretaries have said in the past, that the time of issue depends almost entirely upon the efforts of our members in getting advertisements. It seems that no matter how early this work is started from the secretary's office it is certain to drag on each year after all other work connected with the directory is done. Let me repeat therefore what was said in my annual report to the Grand Lodge:

"The annual directory is a most important, and I will say a vital feature in the maintenance of our organization, from the fact that it is the chief source of all the revenue with which the expenses of this Grand Lodge are paid, not forgetting the fact that it also contributes in the matter of paying assessments, and therefore it should be patent to the mind of every member that every dollar collected through the instrumentality of the directory saves the levying of a tax upon themselves to pay just what the revenue of the book pays for them, which fact should stimulate the enthusiasm of every member to make such an effort to secure advertisements as time and circumstances will admit in his case, and to get orders and copy for the advertisements even before the close of navigation if possible."

I wish to repeat also two important requests made in previous issues:

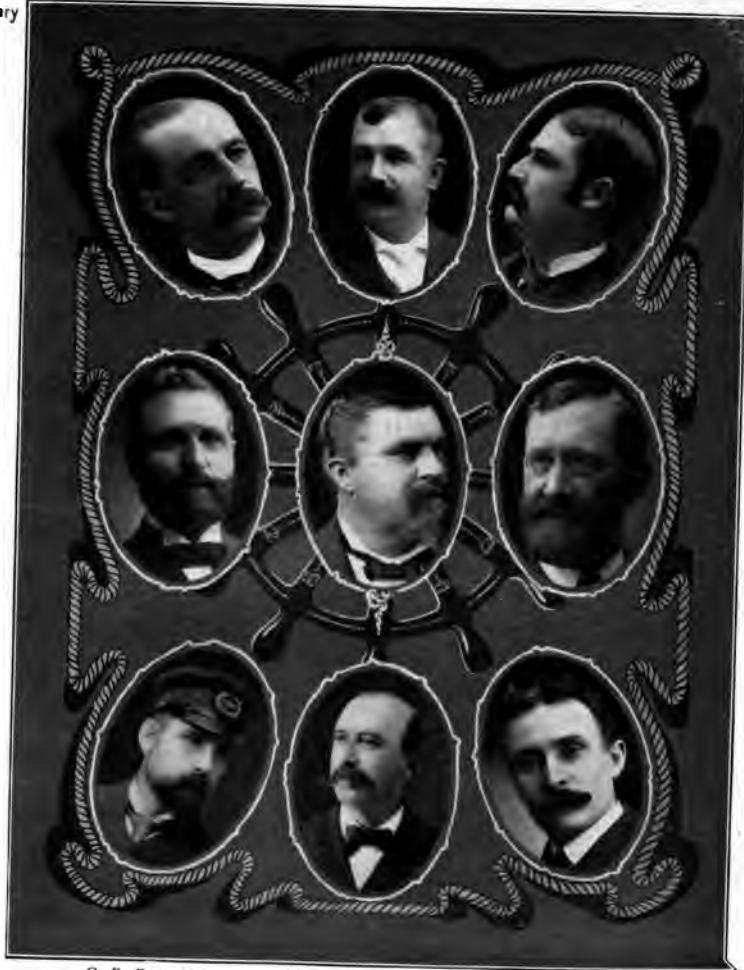
1. Please notify the secretary at once of change of address. If you will kindly do this, your mail will reach you promptly, the secretary's work will be lightened and your interests will have proper attention.
2. Your indebtedness to the advertising patrons of this work. We should help those who help us. The Grand Lodge has repeatedly laid stress on this point.

Room 18, Rialto Bldg.,
Chicago, Ill.

F. B. HIGGIE,
Secretary.

6-10-33

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C. H. HUBBARD

Past Presidents, Ship Masters' Association

GRAND LODGE OFFICERS

1904

Grand President	H. H. PARSONS.
	Detroit, Mich.
Grand Vice-President	CHAS. A. POTTER.
Grand Second Vice-President	HENRY W. STONE.
Grand Treasurer	THOMAS JONES.
	The Ellington, Cleveland, Ohio.
Grand Financial Secretary.....	F. B. HIGGIE.
	Room 1, Rialto Building, Chicago, Ill.
Grand Chaplain	J. B. WARNER.
Grand Marshal	J. H. McDONALD.
Grand Warden	J. E. REYNOLDS.
Grand Sentinel	THOS. M. HOUGH.
1st Past Grand President	ALEX. CLARK.
2d Past Grand President	C. E. BENHAM.
3d Past Grand President	GEO. McCULLAGH.
4th Past Grand President	W. E. RICE.
5th Past Grand President	HENRY LEISK.
6th Past Grand President	A. J. McKAY.
7th Past Grand President	C. H. HUBBARD.
8th Past Grand President	J. A. WARD.
9th Past Grand President	W. D. HAMILTON.

ADDRESSES OF SECRETARIES

LODGE
No.

1. JOHN PEREW.....686 Prospect Ave., Buffalo, N. Y.
2. GEO. W. PIERCE.....1208 Howard St., Port Huron, Mich.
3. F. B. HIGGIE.....Room 18, Rialto Bldg., Chicago, Ill.
4. C. L. ALLEN.....The Courtland, Cleveland, Ohio.
6. JOHN MCSWEENEY.....459 Maryland Ave., Milwaukee, Wis.
7. ENOS J. BURKE.....415 Wabash Ave., Detroit, Mich.
8. F. C. FOLSOM.....Marine City, Mich.
9. E. G. ASHLEY, care American Savings Bank, 240 Superior St., Toledo, O.



THOS. M. HOUGH WM. J. CROSBY HENRY LEISE J. E. REYNOLDS J. B. WARNER J. H. McDONALD
 F. B. HIGGIE, Secy CHAS. A. POTTEN H. H. PARSONS, Pres. H. W. STONE THOS. JONES, Treas.

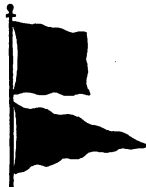
Members of the Grand Lodge, Ship Masters' Association, 1904

STORM SIGNALS

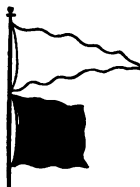
As Displayed on the Great Lakes at United States
Weather Bureau Stations.



N. E. Storm.



S. E. Storm.



N. W. Storm.



S. W. Storm.



Hurricane or very
severe storm.

Information Signals (red or
white pennant displayed alone)
have been discontinued.

EXPLANATION.

Storm Signal.—A red flag with a black center indicates that a storm of marked violence is expected.

The pennants displayed with the flags indicate the direction of the wind; red, easterly (from northeast to south); white, westerly (from southwest to north). The pennant above the flag indicates that the wind is expected to blow from the northerly quadrants; below, from the southerly quadrants.

By night, a red light indicates easterly winds, and a white light above a red light, westerly winds.

Hurricane Signal.—Two red flags with black centers displayed one above the other, indicate the expected approach of tropical hurricanes, and also of those extremely severe and dangerous storms which occasionally move across the lakes and the northern Atlantic coast. *Hurricane warnings are not displayed at night.*

1904

CALENDAR

1904

January

S	M	T	W	T	F	S
...	...	...	...	...	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	...	...	...	...	...	...

February

...	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	...	...	...	...	...

March

...	...	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	...	...

April

...	...	...	...	...	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
...

May

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	...	...	...	...

June

...	...	...	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	...	...
...

July

S	M	T	W	T	F	S
...	...	...	...	...	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	...	...	...	...	...	...

August

...	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	...	...	...

September

...	...	...	...	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	...

October

...	...	...	...	...	...	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	...	...	...	...	...

November

...	...	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	...	...	...

December

...	...	...	...	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
...

Names and Addresses of Members, Ship Masters' Association.

Pennant.

996	Ackerman, J. C.	209 N. Ferry st.	Ludington, Mich.
1098	Ainsworth, Chas.	.....	Algonac, Mich.
1334	Akers, E. C.	21 John st.	Port Huron, Mich.
577	Allen, Christ. C.	195 Taylor st.	Cleveland, O.
1116	Allen, C. L.	The Courtland,	Cleveland, O.
1038	Allen, Sam'l C.	101 Herman st.	Cleveland, O.
1328	Ames, Augustus	.....	Algonac, Mich.
307	Ames, William	82 Quincy st.	Cleveland, O.
1411	Anderholt, L. P.	176 Theodore st.	Detroit, Mich.
1368	Anderson, Chas. A.	Bonny View & Det. sts.	Lakewood, O.
115	Anderson, E. B.	Box 114.	Owen Sound, Ont.
1321	Anderson, Math.	415 Norwood ave.	Cleveland, O.
495	Anderson, P. A.	403 Madison st.	Milwaukee, Wis.
570	Anderson, Jos.	122 Water st.	Cleveland, O.
488	Anderson, O. N.	338 Greenbush st.	Milwaukee, Wis.
1319	Anderson, Wm.	210 South Water st.	Chicago, Ill.
253	Armstrong, B.	336 Sheridan av.	Detroit, Mich.
854	Ashley, Ed. G.	207 Chamber of Commerce,	Toledo, O.
80	Ashley, Walter A.	268 Harrison av.	Detroit, Mich.
1093	Atkinson, Gus.	1237 N. Monticello av.	Chicago, Ill.
1242	Atwill, John	.....	Marine City, Mich.
737	Atwood, Sam'l N.	Box 30,	Exeter, Mo.
1102	Baby, James	613 White st.	Port Huron, Mich.
1454	Bailey, F. A.	.....	Vermillion, O.
614	Bailey, Robert N.	Hicks & Clinton sts.	Toledo, O.
1397	Baker, Burton S.	416 E. Fort st.	Detroit, Mich.
1356	Baker, H. W.	601 Baker st.	Detroit, Mich.
1137	Balfour, C. C.	.....	St. Clair, Mich.
222	Ballentine, E. D.	16 N. Wells st.	Chicago, Ill.
1423	Banker, Geo. H.	204 Bagg st.	Detroit, Mich.
533	Barrett, Maurice	Mich. Cent. R.R. Slip D'k.	Detroit, Mich.
395	Barry, Thos.	430 E. Superior st.	Chicago, Ill.
1384	Bartel, A. E.	663 Gordon av.	Cleveland, O.
1439	Beall, A. R.	.....	Marine City, Mich.
1053	Beauvais, Jas.	1056 Monroe av.	Detroit, Mich.
514	Beckley, John G.	210 Biddle st.	Milwaukee, Wis.
1239	Begg, Alex.	108 Washington.	W. Bay City, Mich.
1366	Beggs, David	1047 W. Taylor st.	Chicago, Ill.

NAMES AND ADDRESSES.

Pennant.

1090	Beggs, Thos.	1038 Taylor st.	Chicago, Ill.
698	Bell, Geo. A.	.....	Vermillion, O.
234	Benham, C. E.	Perry-Payne Bldg.	Cleveland, O.
982	Benham, Wm. P.	74 Eastman st.	Cleveland, O.
427	Benham, Chas. A.	223 Wellington av.	Cleveland, O.
225	Bennett, Henry	212 Adams st.	Bay City, Mich.
1021	Bennett, Jas. S.	8 Spruce st.	Ashtabula Harbor, O.
978	Bennett, Henry	640 Madison av.	Milwaukee, Wis.
1126	Benson, Dan.	.....	Prairie Depot, Ohio
104	Berow, Jos. H.	.....	Vinemont, Ala.
1193	Bertrand, Frank	601 Catherine st.	Detroit, Mich.
1099	Birnie, Alex.	.....	Moore P. O., Ont.
1134	Black, Wm. A.	42 23rd av.	Cleveland, O.
1174	Blair, Nelson	496 Macomb st.	Detroit, Mich.
1205	Blattner, Wm. H.	.....	Vermillion, O.
424	Blue, H. W.	244 W. 25th st.	Chicago, Ill.
96	Bordeaux, D. O.	386 Fourteenth st.	Buffalo, N. Y.
1427	Bough, Charles	121 W. Schuyler st.	Oswego, N. Y.
1068	Bouille, David	128 Marvin av.	Cleveland, O.
1236	Bouille, Pierre	128 Marvin av.	Cleveland, O.
1353	Bourassa, Jos.	Bouck & Broad st.	N. Tonawanda, N. Y.
505	Boyce, H. M.	631 Superior st.	Milwaukee, Wis.
881	Bradshaw, J. L.	1013 Lincoln av.	Port Huron, Mich.
1061	Brady, Thos. J.	329 Harrison av.	Detroit, Mich.
1387	Brandt, August	11 Main st.	Buffalo, N. Y.
973	Brion, Jas. W.	care Briggs House.	Chicago, Ill.
1262	Broadbridge, A. T.	care Marine Sav. Bk.	Marine City, Mich.
1414	Bronson, Chas. T.	5422 Indiana ave.	Chicago, Ill.
1255	Brooks, R. H.	168 Courtland st.	Cleveland, O.
804	Brown, C. T.	.....	Delray, Florida.
1331	Brown, Claude D.	1414 Washington st.	West Bay City.
174	Brown, F. H.	1010 Franklin av.	Cleveland, O.
947	Brown, Geo. A.	427 Jackson st.	Sandusky, O.
1198	Brown, Hector	Box 630	Marine City, Mich.
413	Brown, Jas. A.	128 Homer st.	Chicago, Ill.
1083	Brownell, Step'n	948 Mount st.	Milwaukee, Wis.
709	Bruce, Jas.	206 Lyon st.	Milwaukee, Wis.
1365	Buchanan, Duncan	1 Rialto Bldg.	Chicago, Ill.
995	Budd, Melvin A.	2035 Military st.	Port Huron, Mich.
319	Buie, Daniel	535 60th st.	Englewood, Ill.
1117	Burke, Enos J.	415 Wabash av.	Detroit, Mich.
1167	Burnham, Geo. H.	207 Chamber of Commerce.	Toledo, O.
1101	Burns, John	1407 Sixth st.	Port Huron, Mich.
1294	Burns, John J.	South Michigan st.	Buffalo.
1159	Burns, Wm.	.....	Marine City, Mich.

NAME AND ADDRESSES.

Pennant.

1177	Burr, James	190 Bayne st.	Cleveland, O.
1040	Burtiss, Geo. W.	207 Chamber of Commerce	Toledo, O.
227	Buzzard, John	Box 82	Blenheim, Ont.
428	Byers, J. J. C.	Hotel Cadillac,	St. Clair Mich.
1338	Byrns, Howard	57 Amesbury ave.	Cleveland, O.
1003	Byrns, Ralph E.	1002 Ansel ave.	Cleveland, O.
438	Calbick, J. A.	890 So. Kedgie av.	Chicago, Ill.
290	Call, Richard	3 Fisk st.	Ashtabula, O.
1347	Callam, Alex. C.	.....	Amherstburg, Ont.
1422	Cameron, Mal.	C.82 Randolph st.	Detroit, Mich.
1308	Campau, Louis A.	5746 Dearborn st.	Chicago, Ill.
731	Campau, W. H.	78 Hendrie st.	Detroit, Mich.
256	Campbell, J. M.	117 East 8th st.	Michigan City, Ind.
742	Campbell, W. E.	551 Cass av.	Detroit, Mich.
1241	Canartney, M.	715 Williams st.	Bay City, Mich.
914	Carlloss, W. S.	86 Randall st.	Cleveland, O.
654	Carney, Thos. J.	511 5th av.	Detroit, Mich.
149	Carr, James	817 W. 22d st.	Chicago, Ill.
797	Carrier, David C.	338 Harper ave.	Detroit, Mich.
439	Carter, W. J.	91 Huron st.	Milwaukee, Wis.
1186	Cartwright, D. L.	.....	Algonac, Mich.
257	Cazellis, R.	859 W. North av.	Chicago, Ill.
1213	Chalcraft, Fred. L.	146 Waverly st.	Buffalo, N. Y.
71	Chamberlain, W.	17 47th Place,	Chicago, Ill.
1078	Chamberlin, F. D.	11 Bd. Trade, care A.	Helm, Chicago.
1332	Chamberlin, M.K.	.....	St. Clair, Mich.
861	Chambers, A. P.	829 Prospect st.	Port Huron, Mich.
293	Chapman, C. B.	224 Washington st.	Lorain, O.
44	Chapman, A. C.	28 Robinwood ave.	Lakewood, O.
367	Chatterton, C. B.	120 Main st.	Buffalo, N. Y.
1125	Christensen, Ant'n	553 28th ave.	Milwaukee, Wis.
892	Christenson, P.	815 State st.	Manitowoc, Wis.
1355	Christie, Chas.	319 Chene st.	Detroit, Mich.
1172	Christopher, S.	886 N. Talman st.	Chicago, Ill.
52	Christy, Chas.	16 East Eighth st.	Erie, Pa.
897	Christy, M.	39 Main st.	Buffalo, N. Y.
252	Chron, Thomas	223 Adams st.	Bay City, Mich.
33	Clark, Alex.	48 Crescent av.	Buffalo, N. Y.
1393	Clark, John C.	.....	Sheridan, N. Y.
1085	Clarke, Alex.	1086 Trumbull av.	Detroit, Mich.
35	Clarke, Geo. H.	548 Front av.	Buffalo, N. Y.
433	Cleveland, C. R.	748 Denison av.	Cleveland, O.
169	Cleveland, G. F.	4074 Euclid av.	East Cleveland, O.
1244	Clifford, Alex.	878 Fort St., East,	Detroit, Mich.

NAMES AND ADDRESSES.

Pennant.

370	Clow, J. M.	1347 Merryman st.	Marinette, Wis.
642	Cochrane, David	3530 Ellis ave.	Chicago, Ill.
482	Cochrane, John	450 Greenbush st.	Milwaukee, Wis.
1070	Cody, F. B.	21 Robinwood ave.	Lakewood, O.
1438	Colbert, Thos.	11 Wall st.	Cleveland, O.
116	Coleman, J. H.	570 Front av.	Buffalo, N. Y.
274	Collier, W. A.	852 Oakdale st.	Cleveland, O.
145	Comstock, J. N.	2642 W. R. R. ave.	Evanston, Ill.
1247	Cook, John G.	524 State st.	Milwaukee, Wis.
1309	Cooke, J. W.	R. F. D. No. 1, Highland Park,	Mich.
1317	Cooper, Thomas	Ellington House,	Cleveland, O.
1253	Copeland, C. E.	.....	Port Huron, Mich.
50	Corcoran, Jos.	225 E. 3d st.	Erie, Pa.
1261	Cottrell, Frank W.	Water st.	Marine City, Mich.
738	Cottrell, Geo. L.	30 Greymont st.	Cleveland, O.
1257	Cottrell, Jas. E.	Elizabeth st.	Marine City, Mich.
448	Coughlin, Daniel	563 Perry st.	Buffalo, N. Y.
380	Coulter, John	.....	Milan, O.
1012	Cowles, Wm. J.	Lake View Farm,	Huron City, Mich.
194	Cowley, Robt. J.	599 2d av.	Lorain, O.
1447	Craig, John C.	94 Jeannette st.	Windsor, Ont.
1135	Craigie, Alex.	The Courtland.	Cleveland, O.
1358	Crangle, John	131 Station st.	Chicago, Ill.
653	Crawford, C. B.	314 West Boulevard,	Detroit, Mich.
936	Crawford, Wm.	.....	Glen Ellyn, Ill.
1076	Crosby, Wm. J.	379 Cavalry av.	Detroit, Mich.
1445	Cullnan, John	544 Parke ave.	Chicago, Ill.
1282	Cummings, L. B.	121 South st.	Painesville, O.
202	Cummings, H.	124 Kettering st.	Cleveland, O.
827	Cunningham, J.	253 Hoyt st.	Buffalo, N. Y.
1252	Cunningham, J. J.	1725 Ontario st.	Toledo, O.
150	Curran, David	324 Grant st.	Buffalo, N. Y.
1154	Curran, David A.	324 Grant st.	Buffalo, N. Y.
1057	Curran, Thos.	21 Eldred st.	Detroit, Mich.
617	Currie, S. H.	287 W. Canfield av.	Detroit, Mich.
1360	Dailey, Michael	252 Brady st.	Milwaukee, Wis.
1380	Davidson, Lycander	38 Greenwood Terrace	Chicago, Ill.
121	Davis, E. H.	717 Division st.	Port Huron, Mich.
138	Davis, Henry	703 Ontario st.	Port Huron, Mich.
705	Davis, C. M.	2812 Grand av.	Milwaukee, Wis.
1364	Dawson, Henry	care J. A. Calbic,	
		12 Sherman st.	Chicago, Ill.
597	Dayton, Geo.	406 Sibley st.	Cleveland, O.
950	Decker, W. H.	40 Oregon av.	Chicago, Ill.

NAMES AND ADDRESSES.

Pennant.

1217	Deeg, Wm.	437 Lansing av.	Detroit, Mich.
431	De Lergie, Thos.	1014 Lorain st.	Cleveland, O.
598	Dennis, Geo. M.	151 Medbery ave.	Detroit, Mich.
983	Detlefs, Emil	236 Lakeland av.	Lakewood, O.
199	Disher, William	335 Cortland st.	Chicago, Ill.
4	Dissette, Jno. H.	420 Connecticut	Buffalo, N. Y.
501	Doak, Jno. A.	532 20th av.	Milwaukee, Wis.
1429	Dobson, J. C.	259 W. Madison st.	Cleveland, O.
1075	Donaghue, E. J.	care M. A. Hanna & Co.,	Erie, Pa.
1441	Doner, James	106 National av.	Detroit, Mich.
998	Doochen, J. B.	423 Fargo av.	Buffalo, N. Y.
1147	Doville, D. F.	424 Water st.	Toledo, O.
1251	Doville, Egbert	424 Water st.	Toledo, O.
407	Doville, Jos.	Hotel Doville.	Sodus Point, N. Y.
186	Dowdell, P.	75 W. Clinton st.	Cleveland, O.
368	Doyle, Jas.	18 Fairfield st.	Buffalo, N. Y.
1305	Doyle, John J.	.....	Ludington, Mich.
317	Drake, A. B.	97 White Bldg.	Buffalo, N. Y.
128	Driscoll, Dennis	285 Jefferson st.	Buffalo, N. Y.
1059	Driscoll, Jas. H.	826 W. 10th st.	Erie, Pa.
1095	Duddleson, J. W.	729 Maple st.	Sault Ste. Marie, Mich.
532	Duncanson, D. J.	37 Reed pl.	Detroit, Mich.
17	Dunn, John	946 Fillmore ave.	Buffalo, N. Y.
1420	Dupuie, F. A.	.....	Marine City, Mich.
678	Durand, H. H.	2428 Rosewood av.	Toledo, O.
105	Durker, Henry	982 W. 12th st.	Chicago, Ill.
1289	Dwelle, A. W.	.....	Kelly's Island, O.
1127	Dyble, Edward	12 Lowell st.	Cleveland, O.
628	Eade, Alfred	291 Jos. Campau av.	Detroit, Mich.
1425	Edwards, M. L.	675 Osgood st.	Chicago, Ill.
952	Eldredge, H. C.	74 Tennessee	Cleveland, O.
460	Ellery, Thos. A.	.....	Marysville, Mich.
899	Elliott, A. M.	1429 Wolfram st.	Chicago, Ill.
1363	Elliott, Frank	care Calbick & Co.	Chicago, Ill.
631	Elliott, Lewis	.....	Rome, Mich.
807	Ellis, Thos. C.	113 Cullison st.	Cleveland, O.
1219	England, Rich W.	76 Rosedale court	Detroit, Mich.
272	Ennes, C. G.	210 Scott st.	Cleveland, O.
373	Everett, A.	care F. B. Higgie & Co.	Chicago, Ill.
1361	Faragher, Wm.	38 W. Clinton st.	Cleveland, O.
1386	Ferguson, John A.	265 Pearl st.	Cleveland, O.
629	Ferguson, R. E.	27 Bruce ave.	Windsor, Ont.
1041	Ferguson, Wm.	7 Robinwood av.	Lakewood, O.

NAMES AND ADDRESSES.

Pennant.

247	Fick, Frank A.	370 Huron st.	Cleveland, O.
1084	Firby, Wm. T.	244 Bellevue ave.	Detroit, Mich.
1436	Fisher, John	50 Rvan st.	Buffalo, N. Y.
1446	Fitch, Edward	40 State st.	Cleveland, O.
1457	Fitch, Edward	2940 Lowe av.	Chicago, Ill.
341	Fitzgerald, M.	.....	Roberts Landing, Mich.
779	Fitzsimmons, T.	628 Brooklyn ave.	Detroit, Mich.
971	Fleck, Jas. A.	721 Griswold st.	Pt. Huron, Mich.
42	Fletcher, Wm.	102 Abbott Road	Buffalo, N. Y.
1405	Flood, Geo. H.	926 Warren av.	Chicago, Ill.
451	Flood, G. W.	926 Warren av.	Chicago, Ill.
1227	Folsum, Frank C.	.....	Marine City, Mich.
1417	Forbes, Alexander	62 Blaine av.	Detroit, Mich.
1141	Forton, Frank S.	34 Fessenden st.	Mt. Clemens, Mich.
612	Fox, Arthur J.	Foot of First st.	Detroit, Mich.
1026	Fox, Benson	306 Marcy av.	Cleveland, O.
1416	Francke, C. H.	Hotel Brunswick	Detroit, Mich.
1389	Fuller C. E.	112 Brayton st.	Buffalo, N. Y.
863	Furtain, W. H.	321 Mullett st.	Detroit, Mich.
200	Gallagher, A.	334 So. Center av.	Chicago, Ill.
986	Gallino, A. P.	.....	St. Clair, Mich.
1299	Galvin, M. J.	357 Porter ave.	Buffalo, N. Y.
1382	Gegoux, Henry	67 Olivewood av.	Cleveland, O.
396	Gerlach, Wm.	813 Perry-Payne Bldg.	Cleveland, O.
682	Gibbs, Albert	Hotel Aberdeen	Milwaukee, Wis.
73	Gibson, James	692 Prospect av.	Buffalo, N. Y.
1060	Gibson, Jas. R.	154 Summit st.	Buffalo, N. Y.
831	Gillespie, I. G.	care Hardy & Dischinger,	Toledo, O.
303	Gilmore, S. A.	202 Washington st.	Lorain, O.
423	Girardin, D. J.	.....	Amherstburg, Ont.
1190	Godman, Jas. P.	49 Campbell Park,	Chicago, Ill.
57	Goodale, L. P.	676 Elm st.	Buffalo, N. Y.
1054	Goodrow, Frank	635 Concord av.	Detroit, Mich.
1403	Goodwin, Jas. F.	278 Birch st.	Cleveland, O.
770	Graham, George	433 Prospect av.	Buffalo, N. Y.
1314	Grant, C. J.	106 Congress st.	Buffalo, N. Y.
120	Grasser, George	32 Greenfield st.	Buffalo, N. Y.
537	Graves, Carlton	57 Bigelow st.	Cleveland, O.
11	Green, James H.	711 West av.	Buffalo, N. Y.
1016	Green, John D.	955 West av.	Buffalo, N. Y.
1150	Greening, Wm.	Box 454	St. Clair, Mich.
158	Greenley, A. J.	care Thos. Jones, Ellington House,	Cleveland, O.
714	Griffin, John L.	413 Junean pl.	Milwaukee, Wis.

NAMES AND ADDRESSES.

Pennant.

385	Gunderson, C. T.	74 Evergreen av.	Chicago, Ill.
536	Gunderson, H.	74 Evergreen av.	Chicago, Ill.
1419	Haberer, M. J.	444 Glenwood av.	Buffalo, N. Y.
627	Hagan, Hugh J.	cor. Bates & Larned st.	Detroit, Mich.
786	Hagan, Wm.	.....	Marine City, Mich.
1204	Hahn, Chas. P.	Box 185	Vermillion, O.
1130	Haight, Chas. M.	42 Sycamore st.	Wyandotte, Mich.
170	Hall, John B.	202 Main st.	Buffalo, N. Y.
1153	Hamilton, W. D.	1295 Millard av.	Chicago, Ill.
1197	Hand, A. S.	.....	Conneaut, O.
1140	Hansen, And. C.	128 Dewitt st.	Buffalo, N. Y.
1456	Hansen, John F.	597 N. Francisco st.	Chicago, Ill.
1304	Harlow, Frank T.	U. S. Life Sav. Sta.,	Cleveland, O.
553	Harlow, Wm. J.	114 10th st.	Toledo, O.
641	Harper, Geo.	1509 Washington	W. Bay City, Mich.
1087	Harrington, Jer.	439 Detroit st.	Cleveland, O.
388	Harrow, W. B.	.....	Cheboygan, Mich.
1324	Harrow, W. G.	care J. W. Westcott.	Detroit, Mich.
155	Hart, Fred. C.	331 Merrick ave.	Detroit, Mich.
1187	Hartman, John J.	80 Woodland av.	Buffalo, N. Y.
506	Hawgood, A. H.	220 Perry-Payne Bldg.	Cleveland, O.
638	Hazen, W. H.	1012 Abbott Road	Buffalo, N. Y.
1106	Heaton, Chas. H.	74 Whitman st.	Cleveland, O.
1029	Herbert, Fred.	55 Gallatin av.	Buffalo, N. Y.
1136	Hergenrother, J. A.	617 Bridge st.	Cleveland, O.
826	Herrick, T. C.	3368 Cherry st.	Toledo, O.
235	Higgie, F. B.	18 Rialto Bldg.	Chicago, Ill.
1359	Higgie, J. F.	559 Waller av.	Austin, Ill.
362	Higgins, Thos.	2568 W. Lake st.	Chicago, Ill.
1421	Hill, Fred C.	.....	Marine City, Mich.
391	Hinslea, C. H.	62 Robinwood av.	Lakewood, O.
1184	Hinslea, Henry	62 Robinwood av.	Lakewood, O.
1004	Hoag, Wm. S.	26 Woodbine st.	Cleveland, O.
687	Hochrath, Jno. B.	31 Savoy st.	Detroit, Mich.
1074	Hoffman, W. H.	915 Larned st. E.	Detroit, Mich.
144	Hogan, James	1675 West Monroe st.	Chicago, Ill.
22	Hogg, G. L.	4169 S. Halsted st.	Chicago, Ill.
666	Holbrook, T. H.	667 Wabash av.	Detroit, Mich.
1370	Hollingshead, Jno.	.....	Marine City, Mich.
1042	Holly, Wm.	284 Waverly av.	Cleveland, O.
269	Holmes, Jos. A.	70 Cornell st.	Cleveland, O.
160	Hoover, N. E.	673 W. Madison av.	Cleveland, O.
1400	Hough, Thos. M.	1505 Harvard st.	Chicago, Ill.
1018	Howard, Martin	924 Warren av.	Chicago, Ill.

NAMES AND ADDRESSES.

Pennant.

1091	Howe, Alfred B.	405 S. Warren st.	Dayton, O.
1022	Howell, Paul	227 W. 3d st.	Erie, Pa.
809	Howland, T. H.	1868 Eggleston av.	Auburn Pk. Chicago
572	Hubbard, C. H.	care U. S. Light-house Insp.	Chicago.
10	Hulligan, Jos.	396 Elk st.	Buffalo, N. Y.
264	Humphrey, W. H.	58 Eldridge st.	Glenville, O.
1017	Hunt, Wm. J.	24 Ware st.	Cleveland, O.
593	Huntoon, A. J.	66 11th st.	Detroit, Mich.
414	Hurlbut, Jesse G.	257 W. 63rd st.	Chicago, Ill.
893	Hursley, J.	323 Maple st.	Sault Ste. Marie, Mich.
75	Hutcheson, David	399 Dragoon av.	Detroit, Mich.
987	Hutchins, F. G.	.....	South Rockwood, Mich.
390	Hutchinson, C. L.	313 Perry-Payne Bldg.	Cleveland, O.
528	Hutton, Jno. T.	116 N. Wells st.	Chicago, Ill.
1443	Iler, Walter C.	212 24th st.	Detroit, Mich.
1035	Ingraham, F. E.	209 E. Erie ave.	Lorain, O.
602	Innes, J. R.	M. C. R. R. Slip Dock,	Detroit, Mich.
670	Irvine, Wm. A.	45 Grummond av.	Detroit, Mich.
255	Isbester, J. W.	care F. B. Higgie & Co.,	Chicago, Ill.
15	Ivers, John H.	141 Lincoln av.	Detroit, Mich.
1138	Jackson, Chas. K.	Box 105,	Algonac, Mich.
1208	Jacobson, J. E.	356 N. Huron st.	Chicago, Ill.
1234	Jagenow, Wm.	922 Mt. Elliott av.	Detroit, Mich.
481	Jamieson, Wm.	439 20th av.	Milwaukee, Wis.
238	Jenkins, John	.....	Marine City, Mich.
359	Jenks, John	5735 Normal av.	Englewood, Ill.
1450	Jennings, J. P.	care E. H. L. Co.,	Blue Island av. and Lincoln st. Chicago, Ill.
1191	Jensen, K. A.	487 Crystal st.	Chicago, Ill.
1131	Jex, J. N.	1633 Superior st.	Toledo, O.
1440	Johnson, F. J.	89 Greenwood pl.	Buffalo, N. Y.
394	Johnson, Jno.	Morgan st.	Buffalo, N. Y.
1394	Johnson, Martin	37 John st.	Cleveland, O.
1081	Johnston, Alex.	407 So. Dean st.	W. Bay City, Mich.
1014	Johnston, Edw.	Box 125,	Courtright, Ont.
1330	Johnston, John M.	Bonny View & Dct. st.	Lakewood, O.
1020	Jollie, Richard	.....	Jefferson, O.
1451	Jones, Harry	275 Rush st.	Chicago, Ill.
168	Jones, Thomas	Ellington Blk.	Cleveland, O.
243	Jones, B. H.	140 Lakeview av.	Glenville, O.
1115	Jones, Jno. F.	57 No. Genesee st.	Cleveland, O.
865	July, Edw. F.	531 13th st.	Detroit, Mich.

NAMES AND ADDRESSES.

Pennant.

1122	Kearns, Joseph	141 Oak st.	Wyandotte, Mich.
1442	Keller, Alva B.	1647 Lamont st.	Cleveland, O.
382	Kelley, Andrew	51 Kenefick av.	Buffalo, N. Y.
1113	Kelley, Daniel	69 Woodward av.	Detroit, Mich.
838	Kelley, David	716 White	E. Toledo, O.
884	Kelley, Patrick	555 So. Pierce st.	Milwaukee, Wis.
1240	Kelley, Jas. W.	2021 Seventh st.	Port Huron, Mich.
1237	Kelley, Henry T.	93 Robinson av.	Cleveland, O.
1333	Kemming, John	826 N. Mozart st.	Chicago, Ill.
89	Kendall, H. J.	.....	Marysville, Mich.
409	Kiah, D. A.	46 Franklin st.	Ogdensburg, N. Y.
594	King, Geo.	505 2d av.	Detroit, Mich.
1229	Kinyon, S. D.	.....	Marine City, Mich.
1266	Kirker, Fred.	care Barbour & Starr	Toledo, O.
1388	Klock, Everett M.	.....	Three Mile Bay, N. Y.
545	Kohnert, E. G.	609 31st st.	Chicago, Ill.
1437	Kohnert, J. E.	609 31st st.	Chicago, Ill.
1398	Kotcher, Albert J.	Foot Adair st.	Detroit, Mich.
1243	Kuhn, John	Main & Pearl sts.	Marine City.
557	Laframboise, Jas.	.....	Amherstburg, Ont.
1010	Laframboise, Jac.	22 Cedar av.	Cleveland, O.
1428	Lake, Lehman B.	391 Bowen av.	Detroit, Mich.
810	Lalonde, Anty.	382 Rhodes av.	Cleveland, O.
1258	Lamb, F. D.	728 East Broadway	E. Toledo, O.
1381	Lamoreaux, Jos.	219 Rush st.	Chicago, Ill.
960	Lampoh, Jos.	96 Bell av.	Lakewood, O.
1295	Landfair, B. M.	38 Mechanic st.	Cleveland, O.
697	Landfair, Jno. A.	.....	Leslie, Mich.
1320	Landgraf, Wm H.	122 Water st.	Cleveland, O.
1206	Larson, Peter	458 Park st.	Milwaukee, Wis.
834	Leaver, Wm.	540 Woodland av.	Toledo, O.
1352	Leckie, Frederic	824 Arch st.	Ann Arbor, Mich.
485	Leisk, James	425 19th av.	Milwaukee, Wis.
500	Leisk, Henry	Box 412	Wauwatosa, Wis.
498	Leisk, John	755 Smith st.	Milwaukee, Wis.
1401	Leitch, James	.....	Marine City, Mich.
1285	Leith, Alex.	1137 N. Albany ave.	Chicago, Ill.
520	Lemay, Timen	268 Jos. Campau av.	Detroit, Mich.
751	Lennon, Wm.	197 W. Seneca	Oswego, N. Y.
1424	Light, F. W.	246 Marvin st.	Cleveland, O.
461	Little, Nelson	2735 So. Military st.	Port Huron, Mich.
284	Little, C. E.	.....	Mount Clemens, Mich.
119	Little, John W.	718 Division st.	Port Huron, Mich.
750	Livingstone, W. jr	77 Moffatt Blk.	Detroit, Mich.

NAMES AND ADDRESSES.

Pennant.

1079	Lockhart, D. O.	213 Madison st.	Sandusky, O.
185	Lockwood, C. W.	E. Side delivery	Ashtabula, O.
283	Loftus, H. F.	9204 Commercial av.	S. Chicago, Ill.
603	Lohr, Edward	820 Champlain st.	Detroit, Mich.
164	Lowe, Jas. B.	70 Liberty st.	Cleveland, O.
182	Lowe, John	288 Birch st.	Cleveland, O.
526	Lund, William	312 Hanover st.	Milwaukee, Wis.
1259	Lynn, Daniel R.	558 White st.	E. Toledo, O.
197	Lyons, R. J.	313 Erie ave.	Lorain, O.
868	Lyons, Robt. A.	436 Patterson av.	Chicago, Ill.

1025	Macdonald, D. S.	.....	Northeast, Pa.
1161	MacDonald, Nor.	254 Merrick av.	Detroit, Mich.
1415	MacLachlan, A. H.	58 Root st.	Cleveland, O.
543	MacLean, Donald	1279 Congress st.	Chicago, Ill.
1433	MacLean, W. J.	106 Linden st.	Detroit, Mich.
1345	Madden J. H.	care J. A. Calbick & Co.	Chicago.
113	Madden, M. J.	1003 Kearney st.	Port Huron, Mich.
1194	Maddock, J. B.	39 Calumet st.	Detroit.
1203	Maddock, J. C.	39 Calumet st.	Detroit.
891	Madigan, Jas. A.	care Brown & Co.	Buffalo, N. Y.
1073	Mahon, A. J.	443 Military av.	Detroit, Mich.
204	Mahoney, Daniel	74 Michigan st.	Buffalo, N. Y.
576	Maitland, Henry	1026 Wall st.	Port Huron, Mich.
1449	Maitre, Frank	935 Newhall st.	Milwaukee, Wis.
1082	Mallette, P. A.	537 Macomb st.	Detroit, Mich.
176	Mallory, G. B.	Perry-Payne Bldg.	Cleveland, O.
266	Mallory, D. H.	.....	Elyria, O.
365	Mansfield, Ira B.	1713 Berry av., Fl. 6.	Chicago, Ill.
994	Manuel, F. W.	2707 So. Military st.	Port Huron, Mich.
732	Mara, James	465 Military av.	Detroit, Mich.
1402	Markle, Stanton	.....	Marine City, Mich.
1047	Martin, Edward	308 Purdy st.	Buffalo, N. Y.
749	Massey, John	care F. B. Higgin,	Chicago, Ill.
1226	Mattison, E. F.	Williams st.	Marine City, Mich.
477	Maxon, F. C.	83 31st st.	Milwaukee, Wis.
1276	Maxwell, Wm.	.....	Marine City, Mich.
191	May, A. C.	1912 7th st.	Port Huron, Mich.
1123	Maynes, Dan'l A.	473 Campbell av.	Detroit.
549	Maytham, E. C.	71 Circle	Buffalo, N. Y.
613	Meikleham, Thos.	641 Fernwood av.	Toledo, O.
1376	Meno, Frank L.	.....	St. Clair, Mich.
344	Merritt, G. E.	212 Seyburn av.	Detroit, Mich.
650	Millen, Jas. W.	.....	Romeo, Mich.

NAMES AND ADDRESSES.

Pennant.

1175	Millen, P. L.	.....	Romeo, Mich.
671	Millen, Wm. F.	.....	Romeo, Mich.
781	Miller, Alex B.	Box 564	Marine City, Mich.
812	Miller, Hugh O.	100 Main st.	Ogdensburg, N. Y.
695	Miller, Chas. D.	51 Bryant st.	N. Tonawanda, N. Y.
1455	Milne, John	313 Franklin st.	Buffalo, N. Y.
659	Miner, Chas.	254 Holcomb av.	Detroit, Mich.
736	Minor, F.	R. F. D. No. 2.	Port Huron, Mich.
450	Minskey, J. P.	445 Belden av.	Chicago, Ill.
1170	Minter, Thos. B.	18 Otis st.	Chicago, Ill.
798	Mitchell, Alfred	Perry-Payne Bldg.	Cleveland, O.
302	Mitchell, John	508 Perry-Payne Bldg.	Cleveland, O.
1009	Mitchell, Wm.	Mitchell & Co.	Bay City, Mich.
278	Montague, C. S.	.....	Huron, O.
1155	Montgomery, J. W.	131 E. Division st.	Chicago.
1032	Moody, Chas. E.	574 3d av.	Milwaukee, Wis.
959	Moody, W. H.	.....	Vermillion, O.
163	Mooney, Edw.	.....	West Park, O.
412	Moore, Chas. K.	892 Kedzie av.	Chicago, Ill.
618	Moore, C. F.	62 Abbott st.	Detroit, Mich.
254	Moore, H. R.	826 Congress st.	Chicago, Ill.
992	Moore, J. F.	390 Oakley	Chicago, Ill.
1409	Morehead, Wm.	707 Brooklyn av.	Detroit, Mich.
355	Morgan, Jas. W.	R. F. D. No. 2,	Geneva, O.
306	Morrison, J. S.	21 Lowell st.	W. Cleveland, O.
389	Morton, Edward	216 Commonwealth av.	Cleveland, O.
1192	Moshier, Benj.	36 Afton place	Cleveland, O.
822	Mosier, R. H.	Box 215	Cheboygan, Mich.
339	Mulholland, Matt	437 Wade Park av.	Cleveland, O.
263	Murch, M. H.	598 Franklin av.	Cleveland, O.
108	Murphy, Henry	57 Verplank st.	Buffalo, N. Y.
129	Murphy, S.	66 Ontario st.	Oswego, N. J.
189	Murphy, S. N.	24 Harbor st.	Cleveland, O.
1347	Murray, Robt.	260 Grant st.	Buffalo, N. Y.
192	McAllister, Jas.	Box 56	Owen Sound, On.
1224	McAlpin, Hugh	23 Root st.	Cleveland, O.
972	McAlpin, Jno.	193 W. Seneca st.	Oswego, N. Y.
1066	McAlpin, Wm.	427 Dragoon ave.	Detroit, Mich.
78	McArthur, John	1018 Wash. av.	Port Huron, Mich.
1348	McArthur, Jno. Jr	809 Park st.	Port Huron, Mich.
1100	McAvoy, John	465 Troy st.	Chicago.
1199	McCann, Samuel	Market and Pearl	Marine City, Mich.
1430	McCallum, G. W.	20 Aurelia st.	Detroit, Mich.
875	McCallum, H. C.	71 Delaware av.	Detroit, Mich.

NAMES AND ADDRESSES.

Pennant.

300	McCambridge, T.	Grand Haven, Mich.
1112	McCarthy, Dan'l	Boston, Mass.
111	McCarthy, John	Jersey City, N. J.
1316	McCarthy, J.	Detroit, Mich.
880	McCoy, Geo. A.	Cleveland, O.
513	McCoy, John	Milwaukee, Wis.
890	McCrea, Chas.	Buffalo, N. Y.
578	McCullagh, Geo.	Detroit, Mich.
386	McCullah, Peter	Chicago, Ill.
1160	McDonald, J. H.	Marine City, Mich.
542	McDonald, Geo.	Chicago, Ill.
250	McDowell, Robt.	Cleveland, O.
315	McEachern, A.	Buffalo, N. Y.
1232	McFarlane, Dan'l	Delray, Mich.
9	McFarlane, P.	Buffalo, N. Y.
327	McFarlane, Dan.	Detroit, Mich.
975	McFarlane, D.	Mackinaw, Mich.
1067	McGarry, John	Cleveland, O.
988	McGarvey, Wm.	Cleveland, O.
712	McGinn, James	Milwaukee, Wis.
1293	McGowen, H. L.	Pt. Huron, Mich.
1142	McGregor, A. E.	Sarnia, Ont.
1315	McGregor, Wilson	Detroit, Mich.
515	McGregor, W. F.	Windsor, Ont.
1052	McGuire, N.	Detroit, Mich.
584	McIntosh, Chas.	Detroit, Mich.
1065	McIntosh, J. L.	Detroit, Mich.
767	McIntosh, M. G.	Detroit, Mich.
941	McIntyre, Allan	Chicago, Ill.
288	McKay, Geo. P.	Cleveland, O.
753	McKay, Alex. J.	Detroit, Mich.
1453	McKay, W. J.	Chicago, Ill.
289	McKeighan, John	Cleveland, O.
1007	McKenzie, Hugh	Detroit, Mich.
1287	McKenzie, A.	Erie, Pa.
856	McKinley, James	Toledo, O.
1028	McLachlan, Arch.	Detroit, Mich.
1080	McLachlan, D.	Detroit, Mich.
755	McLarty, Jas.	Detroit, Mich.
1108	McLean, J. C.	Port Huron, Mich.
910	McLean, Wm.	Detroit, Mich.
997	McLeod, Geo. A.	Port Huron, Mich.
1110	McLeod, John	Conneaut, O.
1350	McMaugh, A. A.	Buffalo, N. Y.
771	McMillan, Chas.	Buffalo, N. Y.

NAMES AND ADDRESSES.

Pennant.

1301	McMinn, Geo.	239 DeWitt st.	Buffalo, N. Y.
165	McNeff, John	156 Clinton st.	Cleveland, O.
214	McNeil, J. S.	care of F. B. Higgie,	Chicago, Ill.
507	McSweeney, Jno.	459 Maryland av.	Milwaukee, Wis.
1109	Neal, Jas. S.	First Nat. Ex. Bk.	Port Huron, Mich.
1209	Neal, Wm. D.	.....	Courtright, Ont.
187	Nelson, Bernard	84 Marion st.	Cleveland, O.
1286	Nelson, Chas.	74 King st.	Ogdensburg, N. Y.
1346	Nicholson, John	106 Cherry st.	Detroit, Mich.
1280	Nixon, Francis	2021 Chase.	Toledo, O.
464	Nicholson, D.	31 Marcy st.	Detroit, Mich.
151	Nicholson, Wm.	178 Quinby st.	Grand Rapids, Mich.
1	Niland, Martin	care A. Clark & Co.	Buffalo, N. Y.
1395	Nordahe, Arnold	57 Carroll st.	Cleveland.
350	O'Connor, R. O.	Box 85.	St. Clair, Mich.
1169	O'Day, Simon	729 Prospect av.	Buffalo, N. Y.
21	O'Neil, Patrick	190 Front av.	Buffalo, N. Y.
1179	O'Neill, Patrick	60 Morgan st.	Buffalo, N. Y.
1218	Ogden, B. F.	Man. Dry Dock Co.	Manitowoc, Wis.
1444	Olsen, John K.	326 Augusta st.	Chicago, Ill.
1349	Olsen, Oscar	137 Bertram st.	Cleveland, O.
358	Olson, Olof	2076 Superior st.	Cleveland, O.
1148	Olson, Samuel	410 7th av.	Milwaukee, Wis.
1431	Osborn, F. D.	401 Woodlawn av.	Buffalo, N. Y.
547	Otter, Thos. W.	550 Mineral st.	Milwaukee, Wis.
1128	Owen, Jas. L.	108 Washington st. W.	Bay City, Mich.
97	Owen, John Q.	71 Washington av.	Detroit, Mich.
544	Page, Hiram C.	.....	Union City, Pa.
1399	Pardo, Wm.	17 Petebora st.	Detroit, Mich.
1185	Parsson, F.	308 Taylor st.	Cleveland, O.
1182	Parsons, H. H.	217 Vinewood av.	Detroit, Mich.
1201	Parsons, Joseph	221 Avery av.	Detroit, Mich.
743	Parsons, James	1215 Masonic Temple.	Chicago, Ill.
1233	Parsons, Dudley R.	care Prindeville & Co.	Chicago, Ill.
1269	Patterson, Wm.	1969 35th st.	Chicago, Ill.
1129	Perew, Frank D.	16 Sanford st.	Cleveland, O.
381	Perew, John	686 Prospect av.	Buffalo, N. Y.
768	Peterson, Andrew	care G. C. Hansen.	Cleveland, O.
694	Peterson, C. A.	112 Reese st.	Sandusky, O.
624	Peterson, H.	70 Cornell st.	Cleveland, O.
329	Peterson, J. D.	Box 174.	Huron, O.

NAMES AND ADDRESSES.

Pennant.		
1392	Peterson, M. S.	94 Triangle st. Buffalo, N. Y.
716	Peterson, Peter	832 So. Madison st. Green Bay, Wis.
1329	Peterson, Peter A.	11 Marcy av. Cleveland, O.
1265	Pierce, Wm. E.	300 North Dean st. W. Bay City, Mich.
801	Pierce, G. W.	1208 Howard st. Port Huron, Mich.
1373	Pollock, George	332 Howard st. Detroit, Mich.
1039	Post, Jos. W.	..... Sandusky, O.
1173	Potter, Chas. A.	755 Tonawanda st. Buffalo, N. Y.
1220	Powell, Jas. A.	76 Rosedale ct. Detroit, Mich.
1089	Powell, L. H.	..... Ashtabula, O.
140	Powrie, P. F.	care J. G. Keith. Chicago, Ill.
1452	Pratt, Frank C.	247 15th st. Detroit, Mich.
1844	Preston, John R.	111 West Oneida. Oswego, N. Y.
229	Pringle, John C.	Box 23. St. Clair, Mich.
1256	Quinlan, Wm.	744 14th st. Detroit, Mich.
177	Rae, F. H.	..... Vermillion, O.
558	Rae, Frank C.	..... Vermillion, O.
179	Rahill, Timothy	27 Wilmer av. Buffalo, N. Y.
1284	Rains, Ed. T.	..... Sault Ste. Marie, Mich.
1043	Rand, Leroy A.	Box 3. Wilmette, Ill.
1435	Rattray, Chas.	24 Spruce st. Detroit, Mich.
230	Rattray, E. T.	176 Archwood av. Cleveland, O.
1434	Recor, Geo. F.	183 Lawton av. Detroit, Mich.
1105	Reece, Geo. O.	Box 84. St. Clair, Mich.
1254	Reed, Wm. A.	Gt. Northern Hotel. W. Superior, Wis.
443	Regan, John	4040 Wabash av. Chicago, Ill.
1307	Reid, Fred. H.	1010 Franklin st. Cleveland, O.
1171	Reid, Robt., jr.	care J. A. Calbick & Co. Chicago, Ill.
1056	Reynolds, J. E.	514 Ontario. Port Huron, Mich.
708	Rice, Frank	32 Willett st. Cleveland, O.
782	Rice, Phillip	..... Pt. Lambton, Ont.
141	Rice, William E.	Lock Box "A" Harbor Beach, Mich.
1418	Rice, Wm. G.	83 Pine st. Buffalo, N. Y.
133	Richardson, H.	..... East Aurora, N. Y.
28	Riley, Cornelius	506 N. Division st. Buffalo, N. Y.
1143	Rinn, Wesley	..... Harbor Beach, Mich.
287	Roach, P. C.	251 Wells st. Chicago, Ill.
591	Roach, Wm.	259 24th st. Detroit, Mich.
279	Robarge, G. E.	Brown & Co. Buffalo, N. Y.
902	Robertson, Geo.	Box 245. Grand Haven, Mich.
1283	Robinson, Alex	R364 Harbor st. Conneaut, O.
1377	Robinson, Salem	224 Spruce st. Detroit, Mich.
49	Robinson, Walter	326 15th st. Buffalo, N. Y.

NAMES AND ADDRESSES.

Pennant.

416	Rogers, Harry	235 Taylor st.	Cleveland, O.
56	Root, F. D.	.....	Sault Ste. Marie, Mich.
1103	Ross, C. D. care	Lake Shore Stone Co.	Milwaukee, Wis.
821	Rowan, Murdock	.....	Grand Haven, Mich.
1152	Ryan, Geo. D.	401 Champlain st.	Detroit, Mich.
1290	Ryder, Dallas	.....	Three Mile Bay, N. Y.
843	Sage, Geo. V.	655 S. Bridge.	E. Toledo, O.
1413	Saunders, Jas. M.	5329 Dryades st.	New Orleans, La.
546	Sanders, Jos.	154 23rd av.	Cleveland, O.
1088	Sanders, Thos. H.	Perry-Payne Bldg.	Cleveland, O.
223	Saph, C. M.	.....	Prairie View, Lake Co., Ill.
1367	Savage, Henry L.	96 Herrick st.	Cleveland, O.
1163	Sayre, C. E.	.....	Mason, Mich.
496	Schwerman, Fred.	329 21st av.	Milwaukee, Wis.
509	Scott, W. B.	465 Hanover.	Milwaukee, Wis.
1313	Secord, C. D.	39 Holland Place.	Buffalo, N. Y.
1228	Shackett, Henry	Main st.	Marine City, Mich.
1230	Shackett, J. M.	Elizabeth st.	Marine City, Mich.
1202	Shafer, Avander	491 Howard st.	Detroit, Mich.
799	Shaw, Geo. A.	.....	Marine City, Mich.
1268	Shanks, Wm.	3028 Throop st.	Chicago, Ill.
579	Shaw, John C.	Union Trust Bldg.	Detroit, Mich.
963	Shaw, W. W.	3122 Rhodes av.	Chicago, Ill.
55	Shay, W. S.	76 Patterson st.	Ogdensburg, N. Y.
773	Sheehan, Jas. E.	970 4th av.	Detroit, Mich.
566	Shephard, A. M.	Box 117.	Goderich, Ont.
54	Sherwood, D. N.	Warren Road.	Lakewood, O.
1407	Shorkey, W. W.	.....	Marine City, Mich.
376	Sinclair, Alex. R.	314 Manhattan Bldg.	Duluth, Minn.
1362	Sinclair, Cyrus H.	Great Lakes Towing Co.	Cleveland, O.
977	Sinclair, D. M.	2037 Military st.	Port Huron, Mich.
1104	Sinclair, Jno. H.	733 Wall st.	Port Huron, Mich.
1024	Singer, W. H.	.....	Duluth, Minn.
857	Skeldon, Jas. W.	1845 Superior st.	Toledo, O.
632	Skiffington, J. A.	163 Jos. Campau.	Detroit, Mich.
850	Slackford, W. G.	309 Campbell av.	Sandusky, O.
1275	Smades, Edwin	10 Harwood Place.	Buffalo, N. Y.
1111	Small, E. S.	Box 168.	Charlevoix, Mich.
1013	Smith, A. C.	2524 Waring st.	Berkely, California
701	Smith, E. M. care	Ship Canal Office,	Sault Ste. Marie, Mich.
1063	Smith, Geo.	435 4th av.	Detroit, Mich.
1279	Smith, Jno. H.	52 Reily st.	Buffalo, N. Y.
310	Smith, J. N.	216 Scott st.	Cleveland, O.
1249	Soleau, O. J.	Milwaukee Tug Boat Line.	Milwaukee.

NAMES AND ADDRESSES.

Pennant.

231	Spear, E. P.	24 Anndale st.	Cleveland, O.
1246	Stalker, A. W.	565 Church st.	E. Toledo, O.
348	Stalker, Duncan	522 Woodville st.	E. Toledo, O.
479	Starke, F. C.	173 25th st.	Milwaukee, Wis.
921	Steibel, John	713 Perry st.	Sandusky, O.
162	Stenton, F. W.	71 Bridge st.	Cleveland, O.
1354	Stephens, T. J.	221 Washington av.	Alpena, Mich.
1183	Stevens, Ed. P.	701 Jefferson av.	Detroit, Mich.
1114	Stevenson, G. C.	110 Greenwood Place.	Buffalo, N. Y.
418	Stevenson, Hugh	418 Glenwood av.	Buffalo, N. Y.
1412	Stevenson, W. H.	51 Riverside av.	Buffalo, N. Y.
586	Stewart, A. E.	Star Line Office,	Detroit, Mich.
486	Stewart, John	Graham & Morton,	Benton Har., Mich.
967	Still, Hiram	.....	Birmingham, Mich.
564	Stilphen, Geo. F.	care F. B. Higgle	Chicago, Ill.
636	Stoddard, Lewis	488 Putnam av.	Detroit, Mich.
184	Stone, Henry W.	115 Kinsman st.	Cleveland, O.
760	Stone, L. W.	.....	Vermillion, O.
262	Stough, Lafayette	6 Franklin Court.	Cleveland, O.
1406	Stufflebeam, John	348 First st.	Manistee, Mich.
371	Sullivan, D. C.	635 Maryland av.	Milwaukee, Wis.
1235	Sullivan, Edward	128 Dewitt st.	Buffalo, N. Y.
866	Sunderland, R. H.	1034 Concord av.	Detroit, Mich.
1303	Sutherland, W. T.	1044 Shawane av.	W. Green Bay, Wis.
363	Swain, Martin	.....	Chatham, Ont.
739	Sweeney, John	1325 Oakdale av.	Chicago, Ill.
1118	Symes, Geo. A.	68 Hillsdale av.	Cleveland, O.
1410	Talbot, Geo. E.	235 Woodland av.	Detroit, Mich.
1157	Taylor, Jas.	Box 696	Marine City, Mich.
1096	Teare, F. S.	Avery Place.	Painesville, O.
79	Tebo, George	1498 W. Adams st.	Chicago, Ill.
1050	Thompson, Peter	12 Maple st.	Buffalo, N. Y.
422	Thompson, J. C.	29 Cook st.	Cleveland, O.
1097	Thomson, J. C.	Box 4.	Riverview, Ill.
657	Thorburn, John	Mrs. W. A. Meddaugh,	Souris, N. Dak.
61	Thorne, William	293 Park st.	Detroit, Mich.
560	Thorp, Wm. H.	305 No. Henry st.	W. Bay City, Mich.
69	Thorpe, E. F.	231 West av.	Buffalo, N. Y.
1207	Thrall, Preston F.	.....	Green Bay, Wis.
1270	Thurston, Sam.	792 North Rockwell st.	Chicago, Ill.
37	Todd, Robert	198 Emslie st.	Buffalo, N. Y.
719	Tomlin, Wm. J.	.....	Marine City, Mich.
1452	Tonkin, Fred L.	356 Scott st.	Milwaukee, Wis.
616	Tormey, Ed.	78 Columbia st. W	Detroit, Mich.

NAMES AND ADDRESSES.

Pennant.

167	Tower, Chas. B.	206 Clinton st.	Cleveland, O.
1051	Tower, John	care Milwaukee Tug Boat Line,	Milwaukee, Wis.
1216	Traverse, James	Marquette Bldg., care Spalding Lumber Co.,	Chicago, Ill.
1350	Trimble, George	328 Ontario st.	Port Huron, Mich.
1278	Tripp, Ben.	21 N. Genesee av.	Cleveland, O.
206	Trotter, Geo. N.	393 Catherine st.	Detroit, Mich.
1055	Tulian, Gaius D.	26 Greymont st.	Cleveland, O.
726	Tyrney, John	463 Dix av.	Detroit, Mich.
1372	Utley, R. Z.	Elizabeth st.	Marine City, Mich.
508	Vance, L. R.	381 Broadway	Milwaukee, Wis.
1371	Van Gorder, Chas.	.....	Marine City, Mich.
647	Van Patten, F. W.	853 Sheppard av.	Milwaukee, Wis.
1369	Vrooman, G. H.	60 California st.	Buffalo, N. Y.
1001	Walder, R. J.	105 Clinton st.	Cleveland, O.
844	Walker, N. B.	952 Clark st.	E. Toledo, O.
1166	Wall, Daniel	1446 Garfield av.	Marinette, Wis.
1448	Walle, Severin H.	87 W. Western av.	Muskegon, Mich.
294	Wallace, Chas. H.	care Y. & L. Coal Co.	Chicago, Ill.
980	Walsh, Jas. A.	97 Morris st.	Ogdensburg, N. Y.
651	Waltman, Jos.	400 Vinewood av.	Detroit, Mich.
965	Ward, John	17 Clarence av.	Lakewood, O.
783	Ward, Julius A.	.....	Algonac, Mich.
1260	Warner, J. B.	414 5th st.	E. Toledo, O.
1188	Warwick, Henry	419 Glenwood av.	Buffalo, N. Y.
556	Warwick, J. H.	.....	Marysville, Mich.
1404	Watson, F. C.	244 Detroit st.	Cleveland, O.
336	Watts, Jas. B.	52 Eleventh st.	Detroit, Mich.
1124	Wauwig, Jno. D.	404 Summit Pl.	Milwaukee, Wis.
1396	Webster, Chas. T.	care Cleveland Stone Co.	Cleveland, O.
305	Weeks, J. L.	15 Robinwood av.	Lakewood, O.
992	Weimar, Fred T.	1538 Dunning.	Chicago, Ill.
1263	Weimar, Paul T.	1052 Seminary av.	Chicago, Ill.
1312	Weinheimer, F. L.	452 Prospect av.	Buffalo, N. Y.
1391	Welcome, Geo. F.	531 Niagara st.	Buffalo, N. Y.
1132	West, Bert E.	293 Larned E.	Detroit, Mich.
357	Westcott, J. W.	.....	Detroit, Mich.
824	Wetmore, F. A.	.....	Perrysburg, O.
966	Wex, Peter	193 14th st.	Buffalo, N. Y.
700	Wheeler, Wm. P.	235 Madison st.	Sandusky, O.

NAMES AND ADDRESSES.

Pennant.

1385	White, A. E.	.....	Washington, Mich.
1298	White, Joseph	6337 Langley av.	Chicago, Ill.
1146	Whiteside, Jno.	A55 Copeland place.	Buffalo, N. Y.
196	Wilford, Thomas	care Thos. Jones,	Ellington House, Cleveland, O.
1045	Wilkins, W. W.	251 W. 21st st.	Erie, Pa.
1151	Wilkinson, Fred	k569 Mullett st.	Detroit, Mich.
1077	Wilkinson, John	Ft. Woodward av.	Detroit, Mich.
1835	Willet, Luke	192 Birch st.	Cleveland, O.
410	Williams, David	2200 Jackson Boulevard.	Chicago, Ill.
1044	Williams, Ed.	101 Stevens blk. Benton	Harbor, Mich.
1027	Williams, Wm.	623 Fargo av.	Buffalo, N. Y.
352	Williams, W. H.	800 Trumbull av.	Detroit, Mich.
1058	Willoughby, W.J.	.....	Goderich, Ont.
596	Wilson, Chas. L.	164 Willis av.	Detroit, Mich.
610	Wilson, David	115 Koch av.	Detroit, Mich.
63	Wilson, Chas. H.	1014 Chestnut st.	Erie, Pa.
693	Wilson, Geo. U.	U. S. Customs,	Detroit, Mich.
1426	Wilson, John A.	630 Touhy av.	Rogers Park, Ill.
1408	Wilson, Wm.	317 McKinstry av.	Detroit, Mich.
285	Wood, Jas. O.	2927 Parnell av.	Chicago, Ill.
761	Woodford, C. H.	26 Greymont st.	Cleveland, O.
1133	Woods, Jno.	184 E. Water st.	Milwaukee, Wis.
1121	Woodward, C. D.	10 Republic Place,	Cleveland, O.
538	Wright, John	495 18th st.	Milwaukee, Wis.
1291	Wright, Loren	615 Holland st.	Erie, Pa.
503	Wright, Wm.	405 Logan av.	Bay View, Wis.
1923	Wulke, John J.	216 Abbott Road.	Buffalo, N. Y.
679	Yax, Jos. E.	6350 Greenwood av.	Chicago, Ill.
819	Young, J. P.	115 Elizabeth st. E.	Detroit, Mich.
40	Young, Robert	4913 Calumet av.	Chicago, Ill.
375	Zealand, Henry	902 Huron av.	Port Huron, Mich.

Members of the Ship Masters' Association.

Arranged According to Pennant Numbers.

Pennant.	Lodge No.	NAME.	Pennant.	Lodge No.	NAME.
1	1	Niland, Martin	108	1	Murphy, Henry
4	1	Dissette, John H.	111	1	McCarthy, John
9	1	McFarlane, Parlane	113	2	Madden, M. J.
10	1	Hulligan, Joseph	115	2	Anderson, E. B.
11	1	Green, James H.	116	1	Coleman, Jeremiah
15	7	Ivers, John H.	119	2	Little, John W.
17	1	Dunn, John	120	1	Grasser, George
21	1	O'Neil, Patrick	121	2	Davis, E. H.
22	1	Hogg, G. L.	128	1	Driscoll, Dennis
28	1	Riley, Cornelius	129	1	Murphy, Stephen
33	1	Clarke, Alex.	133	1	Richardson, Harry
35	1	Clarke, Geo. H.	138	2	Davis, Henry
37	1	Todd, Robert	140	2	Powrie, P. F.
40	3	Young, Robert	141	2	Rice, William E.
42	1	Fletcher, William	144	3	Hogan, James
44	4	Chapman, A. C.	145	3	Comstock, J. N.
49	1	Robinson, Walter	149	3	Carr, James
50	1	Corcoran, Joseph	150	3	Curran, David
52	1	Christy, Charles	151	3	Nicholson, Wm.
54	4	Sherwood, D. N.	155	7	Hart, Fred. C.
55	1	Shay, W. S.	158	4	Greenley, A. J.
56	3	Root, F. D.	160	4	Hoover, N. E.
57	1	Goodale, L. P.	162	4	Stenton, F. W.
61	7	Thorne, William	163	4	Mooney, Edward
63	1	Wilson, Chas. H.	164	4	Lowe, James B.
69	1	Thorp, E. F.	165	4	McNeff, John
71	3	Chamberlain, Wm.	167	4	Tower, Chas. B.
73	1	Gibson, James	168	4	Jones, Thomas
75	7	Pratt, Frank C.	169	4	Cleveland, Geo. F.
78	2	McArthur, John	170	1	Hall, John B.
79	3	Tebo, George	174	4	Brown, Frank H.
80	7	Ashley, Walter A.	176	4	Mallory, G. B.
89	2	Kendall, H. J.	177	4	Rae, F. H.
96	1	Bordeaux, Dav. O.	179	1	Rahill, Timothy
97	7	Owen, John Q.	182	4	Lowe, John
104	1	Berow, Joseph H.	184	4	Stone, Henry W.
105	1	Durker, Henry			

PENNANT NUMBERS 185 TO 381 INCLUSIVE.

Pennant.	Lodge No.	NAME.	Pennant.	Lodge No.	NAME.
185	4	Lockwood, C. W.	284	7	Little, C. E.
186	4	Dowdell, P.	285	3	Wood, James O.
187	4	Nelson, Bernard	287	3	Roach, P. C.
189	4	Murphy, S. N.	288	4	McKay, Geo. P.
191	2	May, A. C.	289	4	McKeeghan, John
192	2	McAllister, James	290	4	Call, Richard
194	4	Cowley, Robert	293	4	Chapman, C. B.
196	4	Wilford, Thomas	294	4	Wallace, Chas. H.
197	4	Lyons, R. J.	300	3	McCambridge, T.
199	3	Disher, William	302	4	Mitchell, John
200	3	Galagher, Anthony	303	4	Gilmore, S. A.
202	4	Cummings, H.	305	4	Weeks, J. L.
204	1	Mahoney, Daniel	306	4	Morrison, J. S.
206	7	Trotter, Geo. N.	307	4	Ames, William
214	3	McNeil, J. S.	310	4	Smith, J. N.
222	6	Ballentine, E. D.	315	1	McEachern, Archie
223	4	Saph, C. M.	317	1	Drake, A. B.
225	2	Bennett, Henry	319	1	Buie, Daniel
227	2	Buzzard, John	327	7	McFarlane, Daniel
229	2	Pringle, John C.	329	4	Peterson, J. D.
230	4	Rattray, E. T.	336	7	Watts, Jas. B.
231	4	Spear, E. P.	339	4	Mulholland, Matt.
234	4	Benham, C. E.	341	2	Fitzgerald, Michael
235	3	Higgie, F. B.	344	7	Merrit, Geo. E.
238	8	Jenkins, Jno.	348	9	Stalker, Duncan
243	4	Jones, B. H.	350	2	O'Connor, Richard
247	4	Fick, Frank A.	352	7	Williams, W. H.
250	4	McDowell, Robert	355	4	Morgan, Jas. W.
252	3	Chron, Thomas	357	7	Westcott, J. W.
253	7	Armstrong, Byron	358	4	Olson, Olof
254	3	Moore, H. R.	359	3	Jenks, John
255	3	Isbester, J. W.	362	3	Higgins, Thomas
256	3	Campbell, J. M.	363	7	Swain, Martin
257	3	Cazallis, Raymond	365	3	Mansfield, Ira B.
262	4	Stough, Lafayette	367	1	Chatterton, C. B.
263	4	Murch, M. H.	368	1	Doyle, Jas.
264	4	Humphrey, W. H.	370	3	Clow, J. M.
266	4	Mallory, D. H.	371	6	Sullivan, D. C.
269	4	Holmes, Jos. A.	373	3	Everett, Anthony
272	4	Ennes, C. G.	375	2	Zealand, Henry
274	4	Collier, Wm. A.	376	2	Sinclair, Alex. R.
278	4	Montague, C. Z.	377	2	Sinclair, D. M.
279	1	Roebarge, G. E.	380	4	Coulter, John
283	3	Loftus, H. F.	381	1	Perew, John

PENNANT NUMBERS 382 TO 586 INCLUSIVE.

Pen- nant.	Lodge No.	NAME.	Pen- nant.	Lodge No.	NAME.
382	1	Kelley, Andrew	496	6	Schwerman, Fred.
385	3	Gunderson, C. T.	498	6	Leisk, John
386	3	McCullah, Peter	500	6	Leisk, Henry
388	2	Harrow, W. B.	501	6	Doak, Jno. A.
389	4	Morton, Edward	503	6	Wright, Wm. E.
390	4	Hutchinson, C. L.	505	6	Boyce, H. M.
391	4	Hinslea, Chas. H.	506	4	Hawgood, A. H.
394	1	Johnson, John	507	6	McSweeney, John
395	3	Barry, Thomas	508	6	Vance, L. R.
396	4	Gerlach, William	509	6	Scott, W. B.
407	4	Doville, Jos.	513	6	McCoy, John
409	3	Kiah, D. A.	514	6	Beckley, John G.
410	3	Williams, David	515	6	McGregor, W. F.
412	3	Moore, Chas. K.	520	7	Lemay, Timen
413	3	Brown, James A.	526	6	Lund, William
414	3	Hurlbut, Jesse G.	528	7	Hutton, Jno. T.
416	4	Rogers, Harry	532	7	Duncanson, D. J.
418	1	Stevenson, Hugh	536	3	Gunderson, Harry
422	4	Thompson, J. C.	537	4	Graves, Carlton
423	4	Girardin, David J.	538	6	Wright, John
424	3	Blue, H. W.	542	3	McDonald, Geo.
427	4	Benham, Chas. A.	543	3	Maclean, Donald
428	7	Byers, J. J. C.	544	3	Page, Hiram C.
431	4	Delargie, Thos.	545	3	Kohnert, E. G.
433	4	Cleveland, C. R.	546	4	Sanders, Jos.
438	3	Calbick, J. A.	547	6	Otter, Thomas W.
439	6	Carter, W. J.	549	1	Maytham, E. C.
443	3	Regan, John	553	9	Harlow, Wm. J.
448	1	Coughlin, Daniel	556	2	Warwick, J. H.
450	3	Minskey, J. P.	557	2	Laframboise, Jas.
451	3	Flood, Gilmore W.	558	4	Rae, Frank C.
460	2	Ellery, Thomas A.	560	2	Thorp, Wm. H.
461	2	Little, Nelson	564	3	Stilphen, Geo. F.
464	7	Nicholson, D.	566	1	Shephard, A. M.
477	6	Maxon, F. C.	570	4	Anderson, Joseph
479	6	Starke, F. C.	572	3	Hubbard, Chas. H.
481	6	Jamieson, William	576	2	Maitland, Henry
482	6	Cochrane, John	577	4	Allen, Christ C.
485	6	Leisk, James	578	7	McCullagh, Geo.
486	6	Stewart, John	579	7	Shaw, John C.
488	6	Anderson, Olief N.	583	7	Barrett, Maurice
495	6	Anderson, P. A.	584	7	McIntosh, Chas.
			586	7	Stewart, A. E.

PENNANT NUMBERS 591 TO 812 INCLUSIVE.

Pennant.	Lodge No.	NAME.	Pennant.	Lodge No.	NAME.
591	7	Roach, Wm.	700	4	Wheeler, Wm. P.
593	7	Huntoon, A. J.	701	1	Smith, E. M.
594	7	King, Geo.	705	6	Davis, C. M.
596	7	Wilson, Chas. L.	708	4	Rice, Frank
597	7	Dayton, Geo.	709	6	Bruce, James
598	7	Dennis, Geo. M.	712	6	McGinn, James
602	7	Innes, J. R.	714	6	Griffin, John L.
603	7	Lohr, Edward	716	6	Peterson, Peter
610	7	Wilson, David	719	8	Tomlin, Wm. J.
612	7	Fox, Arthur J.	726	7	Tyrney, John
613	9	Meikleham, Thos.	731	7	Campau, W. H.
614	9	Bailey, Robt. N.	732	7	Mara, James
616	7	Tormey, Ed.	736	2	Miner, F.
617	7	Currie, Shepard A.	737	4	Atwood, Sam'l N.
618	7	Moore, C. F.	738	4	Cottrell, Geo. L.
624	4	Peterson, H.	739	3	Sweeney, John
627	7	Hagan, Hugh J.	742	7	Campbell, W. E.
628	7	Eade, Alfred	743	7	Parsons, James
629	7	Ferguson, Robt. E.	749	3	Massey, John
631	7	Elliott, Lewis	750	7	Livingstone, W. Jr.
632	7	Skiffington, Jas. A.	751	7	Lennon, Wm.
636	7	Stoddard, Lewis	753	7	McKay, Alex. J.
638	1	Hazen, Wm. H.	755	7	McLarty, James
641	2	Harper, Geo.	760	4	Stone, Lewis W.
642	3	Cochrane, David	761	4	Woodford, C. H.
647	6	Van Patten, F. W.	767	7	McIntosh, M. G.
650	7	Millen, Jas. W.	768	4	Peterson, Andrew
651	7	Waltman, Jos.	770	1	Graham, George
653	7	Crawford, Chas. B.	771	1	McMillan, Chas.
654	7	Carney, Thos. J.	773	7	Sheehan, Jas. E.
657	7	Thorburn, John	779	7	Fitzsimons, Thos.
659	7	Miner, Chas.	781	8	Miller, Alex. B.
666	7	Holbrook, T. H.	782	8	Rice, Phillip
670	7	Irvine, Wm. A.	783	8	Ward, Julius A.
671	7	Millen, Wm. F.	786	8	Hagan, Wm.
678	9	Durand, Homer H.	797	8	Carrier, David C.
679	3	Yax, Jos. E.	798	8	Mitchell, Alfred
682	6	Gibbs, Albert	799	8	Shaw, G. A.
687	7	Hochrath, John B.	801	2	Pierce, G. W.
693	7	Wilson, Geo. U.	804	2	Brown, C. T.
694	4	Peterson, C. A.	807	4	Ellis, Thomas C.
695	4	Miller, Chas. D.	809	3	Howland, T. H.
697	4	Landfair, John A.	810	4	Lalond, Anthony
698	4	Bell, George A.	812	1	Miller, Hugh O.

PENNANT NUMBERS 819 TO 1039 INCLUSIVE.

Pen- nant.	Lodge No.	NAME.	Pen- nant.	Lodge No.	NAME.
819	7	Young, J. P.	966	1	Wex, Peter
821	1	Rowan, Murdock	967	7	Still, Hiram
822	2	Mosier, R. H.	971	2	Fleck, James A.
824	9	Wetmore, F. A.	972	7	McAlpin, John
826	9	Herrick, T. C.	973	3	Brion, James W.
827	1	Cunningham, Jas.	975	7	McFarlane, D.
831	9	Gillespie, Isaac G.	978	6	Bennett, Henry
834	9	Leaver, Wm.	980	1	Walsh, James A.
837	9	Christy, Martin	982	4	Benham, Wm. P.
838	9	Kelly, David	983	4	Detlefs, Emil
843	9	Sage, Geo. V.	986	3	Gallino, A. P.
844	9	Walker, Norman B	987	7	Hutchins, F. G.
850	4	Slackford, W. G.	988	4	McGarvey, Wm.
854	9	Ashley, Ed. G.	992	3	Moore, J. F.
856	9	McKinley, Jas.	994	2	Manuel, Fred. W.
857	9	Skeldon, Jas. W.	995	2	Budd, Melvin A.
861	2	Chambers, A. P.	996	3	Ackerman, J. C.
863	7	Furtain, W. H.	997	2	McLeod, Geo. A.
865	7	July, Edward F.	998	1	Doohen, John B.
866	7	Sunderland, R. H.	1001	4	Walder, R. J.
868	3	Lyons, Robert A.	1003	4	Byrns, Ralph E.
875	7	McCallum, Henry	1004	4	Hoag, Wm. S.
880	4	McCoy, Geo. A.	1007	7	McKenzie, Hugh
881	2	Bradshaw, Jno. L.	1009	4	Mitchell, Wm.
884	6	Kelly, Patrick	1010	4	Laframboise, Jacob
890	1	McCrea, Chas.	1012	2	Cowles, Wm. J.
891	1	Madigan, Jas. A.	1013	7	Smith, A. C.
892	6	Christenson, Peter	1014	2	Johnston, Edward
893	7	Hursley, Jay.	1016	1	Green, John D.
899	3	Elliott, A. M.	1017	4	Hunt, Wm. J.
902	6	Robertson, Geo.	1018	3	Howard, Martin
910	7	McLean, Wm.	1020	4	Jollie, Richard
914	4	Carloss, W. S.	1021	2	Bennett, Jas. S.
921	4	Steible, John	1022	4	Howell, Paul
932	3	Weimar, Fred. T.	1024	4	Singer, W. H.
936	3	Crawford, Wm.	1025	1	McDonald, D. S.
941	3	McIntyre, Allan	1026	4	Fox, Benson
947	9	Brown, Geo. A.	1027	1	Williams, Wm.
950	3	Decker, W. H.	1028	7	McLachlan, Archie
952	4	Eldredge, H. C.	1029	7	Herbert, Fred.
959	1	Moody, V'm. H.	1032	6	Moody, Chas. E.
960	4	Lampoh, Jos.	1035	4	Ingraham, F. E.
963	3	Shaw, W. W.	1038	4	Allen, Sam'l C.
965	4	Ward, John	1039	4	Post, Jos. W.

PENNANT NUMBERS 1040 TO 1146 INCLUSIVE.

Pennant.	Lodge No.	NAME.	Pennant.	Lodge No.	NAME.
1040	9	Burtiss, Geo. W.	1096	4	Teare, F. S.
1041	4	Ferguson, Wm.	1097	3	Thomson, J. C.
1042	4	Holly, Wm.	1098	3	Ainsworth, Chas.
1043	3	Rand, Leroy A.	1099	2	Birnie, Alex.
1044	6	Williams, Edward	1100	3	McAvoy, John
1045	1	Wilkins, W. W.	1101	2	Burns, John
1047	1	Martin, Edward	1102	2	Baby, James
1050	1	Thompson, Peter	1103	6	Ross, C. D.
1051	6	Tower, John	1104	2	Sinclair, Jno. H.
1052	7	McGuire, Norman	1105	4	Reece, Geo. O.
1053	7	Beauvais, Jas.	1106	4	Heaton, Chas. H.
1054	7	Goodrow, Frank	1108	2	McLean, J. C.
1055	4	Tulian, Gains D.	1109	2	Neal, Jas. S.
1056	2	Reynolds, J. E.	1110	2	McLeod, Jno.
1057	7	Curran, Thos.	1111	6	Small, E. S.
1058	4	Willoughby, W. J.	1112	7	McCarthy, Daniel
1059	4	Driscoll, Jas. H.	1113	7	Kelley, Daniel
1060	1	Gibson, James R.	1114	1	Stevenson, Geo. C
1061	7	Brady, Thos. J.	1115	4	Jones, Jno. F.
1063	7	Smith, Geo.	1116	4	Allen, C. L.
1065	7	McIntosh, John L.	1117	7	Burke, Enos J.
1066	7	McAlpin, Wm.	1118	4	Symes, Geo. F.
1067	4	McGarry, John	1121	4	Woodward, Chas. D
1068	4	Bouille, David	1122	7	Kearns, Joseph
1070	4	Cody, F. B.	1123	7	Maynes, Daniel A.
1073	7	Mahon, A. J.	1124	6	Wauwig, Jno. D.
1074	7	Hoffman, Wm. H.	1125	6	Christenson, Anton
1075	7	Donaghue, E. J.	1126	9	Benson, Dan
1076	7	Crosby, Wm. J.	1127	4	Dyble, Edw.
1077	7	Wilkinson, John	1128	2	Owen, Jas. L.
1078	7	Chamberlin, F. D.	1129	4	Perew, Frank D.
1079	9	Lockhart, D. O.	1130	7	Haight, Chas. M.
1080	7	McLachlan, D.	1131	9	Jex, H. N.
1081	7	Johnston, Alex.	1132	7	West, Bert E.
1082	7	Mallette, Paul A.	1133	6	Woods, John
1083	6	Brownell, Stephen	1134	4	Black, Wm. A.
1084	7	Firby, Wm. T.	1135	4	Craigie, Alex.
1085	7	Clark, Alex.	1136	4	Hergenrother, J. A.
1087	4	Harrington, Jere.	1137	2	Balfour, C. C.
1088	4	Sanders, Thos. H.	1138	2	Jackson, Chas. K.
1089	1	Powell, L. H.	1140	1	Hansen, Andrew C
1090	1	Beggs, Thos.	1141	7	Forton, Frank S.
1091	1	Howe, Alfred B.	1142	2	McGregor, A. E.
1093	3	Atkinson, G. E.	1143	2	Rinn, Wesley
1095	1	Duddleson, Jno. W.	1146	1	Whiteside, J. A.

PENNANT NUMBERS 1147 TO 1266 INCLUSIVE.

Pennant.	Lodge No.	NAME.	Pennant.	Lodge No.	NAME.
1147	9	Doville, D. F.	1207	6	Thrall, Preston F.
1148	6	Olson, Samuel	1208	3	Jacobson, Jacob
1150	2	Greening, Wm.	1209	2	Neal, Wm. D.
1151	7	Wilkinson, F. A.	1213	1	Chalcraft, F. L.
1152	7	Ryan, Geo. D.	1216	3	Traverse, James
1153	3	Hamilton, W. D.	1217	7	Deeg, Wm. G.
1154	3	Curran, David A.	1218	7	Ogden, B. F.
1155	2	Montgomery, J. W.	1219	7	England, Rich. W.
1157	8	Taylor, James	1220	7	Powell, James A.
1159	8	Burns, Wm.	1224	4	McAlpine, Hugh
1160	8	McDonald, John	1226	8	Mattison, E. F.
1161	7	McDonald, N.	1227	8	Folsom, Frank C.
1163	7	Sayre, C. E.	1228	8	Shackett, Henry S.
1166	3	Wall, Daniel	1229	8	Kinyon, S. D.
1167	9	Burnham, Geo.	1230	8	Shackett, J. M.
1169	1	O'Day, Simon	1232	7	McFarlane, Daniel
1170	3	Minter, Thos. B.	1233	7	Parsons, Dudley R.
1171	3	Reid, Robert, Jr.	1234	7	Jagenow, Wm.
1172	3	Christopher, S.	1235	7	Sullivan, Edward
1173	1	Potter, Charles A.	1236	4	Bouille, Pierre
1174	7	Blair, Nelson	1237	4	Kelly, Henry
1175	7	Millen, P. L.	1239	2	Begg, Alex.
1177	4	Burr, James L.	1240	2	Kelly, James W.
1179	1	O'Neill, Patrick	1241	2	Canartney, M.
1182	7	Parsons, H. H.	1242	8	Atwill, John
1183	7	Stevens, E. P.	1243	8	Kuhn, John
1184	4	Hinslea, Henry	1244	7	Clifford, Alex.
1185	4	Parson, Frank	1246	9	Stalker, A. W.
1186	4	Cartwright, D. L.	1247	6	Cook, John G.
1187	1	Hartman, John J.	1249	6	Soleau, O. J.
1188	1	Warwick, Henry	1251	9	Doville, Egbert
1190	3	Godman, Jas. P.	1252	9	Cunningham, J. J.
1191	3	Jensen, K. A.	1253	2	Copeland, Chas. E.
1192	4	Moshier, B.	1254	2	Reed, Wm. A.
1193	7	Bertrand, Frank	1255	4	Brooks, R. H.
1194	7	Maddock, J. B.	1256	7	Quinlan, Wm.
1197	4	Hand, A. S.	1257	8	Cottrell, Jas. E.
1198	8	Brown, Hector	1258	9	Lamb, F. D.
1199	8	McCann, Samuel	1259	9	Lynn, Daniel R.
1201	7	Parsons, Joseph	1260	9	Warner, J. B.
1202	7	Shafer, Avander H.	1261	8	Cottrell, Frank W.
1203	7	Maddock, J. C.	1262	8	Broadbridge, A. T.
1204	4	Hahn, Charles P.	1263	3	Weimar, Paul T.
1205	4	Blattner, Wm. H.	1265	2	Pierce, Wm. E.
1206	6	Larson, Peter	1266	9	Kirker, Fred.

PENNANT NUMBERS 1268 TO 1385 INCLUSIVE.

Pennant.	Lodge No.	NAME.	Pennant	Lodge No.	NAME.
1268	3	Shanks, William	1329	4	Peterson, Peter A.
1269	3	Patterson, Wm.	1330	4	Johnston, Jno. M.
1270	3	Thurston, Samuel	1331	2	Brown, Claud D.
1275	1	Smades, Edwin	1332	8	Chamberlin, M. K.
1276	8	Maxwell, Wm.	1333	3	Kemming, John
1278	1	Tripp, Ben	1334	2	Akers, E. C.
1279	1	Smith, John H.	1335	4	Willett, Luke
1280	9	Nixon, Francis	1338	4	Byrns, Howard A.
1281	8	Robertson, John	1344	6	Preston, John R.
1282	4	Cummings, L. B.	1345	3	Madden, J. H.
1283	1	Robinson, Alex. R.	1346	3	Nicholson, John
1284	7	Rains, Ed. T.	1347	1	Murray, Robert
1285	3	Leith, Alex.	1348	2	McArthur, Jno. Jr.
1286	1	Nelson, Chas.	1349	4	Olsen, Oscar
1287	1	McKenzie, A.	1350	2	Trimble, George
1289	9	Dwelle, A. W.	1352	4	Leckie, Frederic
1290	1	Ryder, Dallas	1353	7	Bourassa, Joseph
1291	1	Wright, Loren	1354	2	Stephens, Thos. J.
1293	7	McGowen, H. L.	1355	7	Christie, Charles
1294	1	Burns, John J.	1356	7	Baker, Harris W.
1295	4	Landfair, B. M.	1358	3	Crangle, John
1297	4	Maltby, Wm. G.	1359	3	Higgie, J. F.
1298	3	White, Joseph	1360	6	Dailey, Michael
1299	1	Galvin, M. J.	1361	4	Faragher, William
1301	1	McMinn, Geo.	1362	3	Sinclair, Cyrus H.
1303	4	Sutherland, Wm. T.	1363	3	Elliott, Frank
1304	9	Harlow, Frank T.	1364	3	Dawson, Henry
1305	6	Doyle, John J.	1365	3	Buchanan, Duncan
1307	4	Reid, Fred'k H.	1366	3	Beggs, David
1308	3	Campau, Louis A.	1367	4	Savage, Henry L.
1309	9	Cook, J. W.	1368	4	Anderson, Chas. A.
1312	1	Weinheimer, F. L.	1369	1	Vrooman, Geo. H.
1313	1	Secord, C. D.	1370	8	Hollingshead, John
1314	1	Grant, C. J.	1371	8	Van Gorder, Chas.
1315	7	McGregor, Wilson	1372	8	Utley, R. Z.
1316	7	McCarthy, J.	1373	7	Pollock, George
1317	4	Cooper, Thomas	1374	7	Callam, Alex. C.
1319	3	Anderson, Wm.	1376	2	Meno, Frank L.
1320	3	Landgraf, Wm. H.	1377	7	Robinson, Salem O
1321	4	Anderson, Mathew	1380	3	Davidson, Lyncander
1323	1	Wulke, John J.	1381	3	Lamoreaux, Joseph
1324	7	Harrow, W. G.	1382	4	Gegoux, Henry
1328	8	Ames, Augustus	1384	4	Bartel, A. E.
			1385	4	White, A. E.

PENNANT NUMBERS 1386 TO 1457 INCLUSIVE.

Pen- nant	Lodge No.	NAME.	Pen- nant	Lodge No.	NAME.
1386	4	Ferguson, John A.	1422	7	Cameron, Mal. C.
1387	4	Brand, August	1423	7	Banker, Geo. H.
1388	1	Klock, Everett	1424	4	Light, F. W.
1389	1	Fuller, C. E.	1425	3	Edwards, M. L.
1390	1	McMaugh, A. A.	1426	3	Wilson, John A.
1391	1	Welcome, Geo. F.	1427	3	Bough, Chas.
1392	1	Peterson, M. S.	1428	7	Lake, Lehman B.
1393	1	Clark, John C.	1429	4	Dobson, J. C.
1394	4	Johnson, Martin	1430	7	McCallum, Geo. W.
1395	4	Nordahl, Arnold	1431	1	Osborne, F. D.
1396	7	Webster, Chas. T.	1432	6	Tonkin, Fred L.
1397	7	Baker, Burton S.	1433	7	MacLean, Wm. J.
1398	7	Kotcher, Albert J.	1434	7	Recor, Geo. F.
1399	7	Pardo, Wm.	1435	7	Rattray, Chas.
1400	3	Hough, Thos. M.	1436	1	Fisher, John
1401	8	Leitch, James	1437	3	Kohnert, J. E.
1402	8	Markle, Stanton	1438	4	Colbert, Thos.
1403	4	Goodwin, Jas. F.	1439	8	Beall, A. R.
1404	4	Watson, F. C.	1440	1	Johnson, F. J.
1405	3	Flood, Geo. H.	1441	7	Doner, James
1406	3	Stufflebeam, J. hn	1442	4	Keller, Alva B.
1407	8	Shorkey, W. W.	1443	7	Iler, Walter C.
1408	7	Wilson, Wm.	1444	3	Olsen, John K.
1409	7	Morehead, Wm.	1445	3	Cullnan, John
1410	7	Talbot, Geo. E.	1446	4	Fitch, Edward
1411	7	Anderholt, L. P.	1447	7	Craig, John C.
1412	1	Stevenson, Wm. H.	1448	3	Walle, Severin H.
1413	1	Saunders, Jas. M.	1449	6	Maitre, Frank
1414	3	Bronson, Chas. T.	1450	3	Jennings, J. P.
1415	4	MacLachlan, A. H.	1451	3	Jones, Harry
1416	7	Francke, C. H.	1452	7	Pratt, Frank C.
1417	7	Forbes, Alexander	1453	3	McKav, W. J.
1418	1	Rice, Wm. G.	1454	4	Bailey, F. A.
1419	1	Haberer, M. J.	1455	1	Milne, John
1420	8	Dupaie, F. A.	1456	3	Hansen, John F.
1421	8	Hill, Fred C.	1457	3	Fitch, Edward

American Steam and Sail Vessels

OF THE GREAT LAKES.

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CORRECTED TO APRIL 15, 1904.

† Indicates vessel is built of iron or steel.

Str. is the general indication for steam vessels not otherwise specified.

Sty. indicates steam yacht.

Sch. indicates all sail vessels and barges.

Stp. indicates steam passenger.

F. B. indicates fire boat.

Nyt. indicates naphtha yacht.

Nas. indicates naphtha screw.

Yty. indicates yawl yacht.

Spd. steam pile driver.

Sch. indicates steam canal boat.

C. F. indicates car ferry.

Sty. indicates sloop yacht.

Bge. indicates barge.

Sew. indicates scow.

Gas. indicates gasoline.

Gyl. indicates gasoline yacht.

Gap. indicates gasoline passenger.

Dge. indicates dredge.

Ltr. indicates lighter.

CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
A						
<i>Sch</i>	Abbie	87	83	88x22	1886	Rasmus Rasmussen, Ludington, Mich.
<i>Sfr</i>	Abbott, H. B.	56	28	65x16	1889	Great Lakes Towing Co., Cleveland, O.
<i>Sfr</i>	Abercorn	260	190	126x26	1874	W. J. Willoughby, Cleveland, O.
<i>Sch</i>	Aberdeen	1045	993	211x35	1892	Henry J. Pauly, Milwaukee, Wis.
<i>Sch</i>	Abyssinia	2037	1916	288x44	1896	Hutchinson & Co., Cleveland, O.
<i>Sch</i>	Acme	128	103	94x17	1891	Melvin DePuy, Buffalo, N. Y.
<i>Tug</i>	Active	18	12	54x13	1894	R. Bell Fish Co., Port Clinton, O.
<i>Ltr</i>	Active	335	318	139x26	1871	Great Lakes Towing Co., Cleveland, O.
<i>Sfr</i>	Ada	23	15	105x35	1887	A. J. Stall, Sandusky, O.
<i>Tug</i>	Adams, A. C.	41	20	62x16	1881	Great Lakes Towing Co., Cleveland, O.

Str	Adele	.....	9	6	48x10	1890	Wm. Dulac, Mt. Clemens, Mich.
Sch	Adirondack	.....	60	57	86x14	1866	R. B. Bragg, Port Kent, N. Y.
Str	Admiral	.....	4651	3647	423x51	1899	M. B. McMillan, Detroit, Mich.
Sch	Adriatic	.....	915	869	202x34	1889	M. A. Bradley, Cleveland, O.
Sch	Advance	.....	366	348	139x28	1871	Leatham & Smith, Sturgeon Bay, Wis
Str	Adventure	.....	141	95	104x24	1875	Chas. Beyschlag, St. Clair, Mich. Burr
Str	Adventurer	.....	16	8	51x11	1895	Alex. Strand, Two Harbors, Minn.
Bge	Agnes	.....	576	572	149x30	1875	Harold B. Nye, Cleveland.
Sch	Aid	.....	368	153	24x11	1885	Ogdensburg C. & T. Co., Ogdensburg
Str	Alaska	.....	1288	1147	212x32	1871	E. & W. T. Co., Anchor L., Buffalo,
Str	Alaska	.....	339	285	165x29	1878	Wm. H. Sanborn, Alpena, Mich.
Sch	Albany	.....	283	269	136x26	1872	A. B. Scott, Marine City, Mich.
Str	Albany	.....	18	9	40x12	1890	Wm. Gleasner, Buffalo, N. Y.
Str	Albatross	.....	87	55	96x29	1880	D. A. Cady, Omro, Wis.
Sch	Alban	.....	5	5	29x10	1895	A. E. Blair, Kewaunee, Wis.
Str	Albright, John J.	.....	4805	3298	416x50	1901	Mitchell & Co., Cleveland, O.
Sty	Alcina	.....	34	27	68x12	1896	O. P. Letchworth, Buffalo, N. Y.
Str	Alcona	.....	990	775	185x34	1878	Drake, Bartow & Co., Cleveland, O
Sch	Aldrich, Wm.	.....	191	182	120x26	1856	Capt. H. Krones, 392 15th ave., Milw
Sch	Alert	.....	360	342	143x28	1871	Leatham & Smith, Sturgeon Bay, Wi
Tug	Alert	.....	23	11	49x13	1874	Chic. & Gt. Lakes Dredg. & Dock Co
Tug	Alert	.....	42	29	71x17	1896	Pennsylvania Fishing Co., Erie, Pa.
Str	Alert	.....	10	7	50x 9	1889	A. R. Hinckley, Cape Vincent, N. Y.
Str	Alert	.....	18	18	49x12	1879	Geo. Plont, Frankfort, Mich.
Str	Alexander	.....	18	12	58x11	1899	Estate of Lewis Daniels, Vergennes, Vt.
Stp	Algeria	.....	2038	1917	288x44	1896	Sidney Scott, Mt. Clemens, Mich.
Sch	Algoma	.....	486	359	127x33	1881	L. R. Boynton, St. Ignace, Mich.
Str	Algona	.....	92	63	95x18	1880	Allen L. Sinser, Massena, N. Y.
Str	Aliber, John A.	.....	32	18	73x14	1897	Wm. P. Wilson, Saugatuck, Mich.
Str	Alice	.....	40	36	66x16	1898	E. P. Warner, Chicago.
Sch	Alice	.....	40	10	63x14	1891	Chas. Rae, Harbor Springs, Mich.
Str	Alice	.....	307	291	137x30	1881	Ole Hanson, Milwaukee, Wis.
Sch	Alice C.	.....	81	27	63x18	1901	John Coffey, Manistukee, Mich.
Str	Allegheny	.....	663	630	187x33	1873	E. T. Carrington, Bay City, Mich.
Sch	Allendale	.....	50	32	66x16	1899	Shepherd Frost, Grand Rapids, Mich.
Sch	Allenton	24	12	57x11	1878	Chas. S. Hebard, Pequaming, Mich.
Str	Allie B.	11	8	44x11	1903	Robt. Bentell, W. Bay City, Mich.

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AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Sly	Allie C.	20		50x14	1890	E. C. Fitzgerald, Cape Vincent, N. Y.
Sly	Alma C.	11	8	44x 9	1895	Joseph Turner, Detroit, Mich. Rebuilt 1902.
Sch	Alo-ha	521	500	173x32	1888	Holland & Graves, Buffalo, N. Y.
Sly	Aloha	18	12	47x 8	1893	Alton Ripley, Oshkosh, Wis.
Tug	†Alpha	86	43	77x19	1881	Great Lakes Towing Co., Cleveland, O.
Tug	†Alpha	43	21	57x15	1882	Great Lakes Towing Co., Cleveland, O.
Tug	Alphard	32	21	56x15	1898	Chas. Simona, Two Rivers, Wis.
Sch	Alta	935	909	198x37	1884	Drake, Bartow & Co. Cleveland, O.
Str	Altha	8	6	37x 9	1893	—, St. Paul, Minn.
Str	†Alva	2419	2000	324x42	1893	M. A. Bradley, Cleveland, O.
Tug	Alva B.	83	41	73x18	1890	Great Lakes Towing Co., Cleveland, O.
Str	Alvin	24	9	55x11	1884	Martin Ryan, Buffalo, N. Y. Abandoned.
Sch	†Amazon	3599	3331	376x46	1897	James Corrigan, Cleveland, O.
Str	Amazonas	2228	1930	295x44	1898	James Davidson, West Bay City, Mich.
Sch	Amboy	893	849	209x34	1874	Tonawanda I. & S. Co., N. Tonawanda, N. Y.
Str	†America	2171	1748	274x42	1889	Chas. Beyschlag, St. Clair, Mich.
Tug	†America	123	83	80x21	1897	Great Lakes Towing Co., Cleveland, O.
Tug	America	42	21	64x15	1894	Great Lakes Towing Co., Cleveland, O.
Sly	America	6	5	30x 7	1894	J. R. Brunnick, Chicago, Ill.
Str	†America	681	478	164x31	1898	A. Booth & Co., Tribune Bldg., Chicago, Ill.
Str	American Eagle	110	64	104x24	1880	L. S. Sullivan, Toledo, O. Rebuilt.
Tug	Ames, I. C.	537	347	160x29	1882	L. M. C. F. Trans. Co., Chicago, Ill.
Sch	Amiot, Lilly	25	23	47x12	1873	Leonard Fitch, Frankfort, Mich.
Str	Anabel	47	34	65x16	1892	Alice Coffey, Manistique, Mich.
Str	†Andaste	1574	1256	266x38	1892	Cleveland Cliffs Iron Co., Cleveland, O.
Sch	Anderson, Alex.	738	728	193x37	1892	N. & B. Mills, Marysville, Mich.
Str	Anderson, F. R.	30	15	75x15	1885	A. Booth Packing Co., Chicago, Ill.
Sch	Anderson, Jane	16	15	43x15	1878	J. Hewlett, Escanaba, Mich.
Sch	Andrews, A. L.	278	264	136x26	1873	Frank Boland, 60 Main st., Buffalo, N. Y.
Tug	Andy	53	36	68x17	1896	H. J. Howard, Chicago, Ill.
Str	†Angeline	4044	3538	423x51	1899	Pr. Isle I. Co. (Cleve. Cliffs), Cleveland, O.
Tug	†Angler	18	9	54x12	1880	Huron Fish Co., Port Huron, Mich.

Sch †Ann Arbor, No. 3.	1677				1896	Ann Arbor R. R. & S. S. Line, Toledo, O.
Sch Ann Maria	256	131x26	243	1864	1884	Geo. S. Eastman, Milwaukee, Wis. Lost.
Tug Annie	78	48	75x20	1889	1884	Great Lakes Towing Co., Cleveland, O.
Tug Annie	75	37	80x18	1889	1884	John B. Breyman, Toledo, O.
Str Annie D.	20	10	54x13	1886	1886	Chas. W. Steckenbach, Green Bay, Wis.
Str Annie Laura	244	189	133x24	1871	1871	Mrs. C. McG. Koch, Sandusky, O.
Str Annie R.	32	22	57x14	1900	1900	A. Booth & Co., Chicago, Ill.
Str Anspach	15	8	45x12	1879	1879	Laura V. Rudeck, Frankfort, Mich.
Sch †Antrim	3200	2902	366x44	1897	1897	J. C. Gilchrist, Cleveland, O.
Str Apache	21	12	57x8	1898	1898	Spencer Kellogg, Buffalo, N. Y.
Gas Apache	16	7	53x13	1903	1903	Cavanaugh, et al., Bay City, Mich.
Tug Apollo	83	56	87x16	1890	1890	S. D. Upham, Saugatuck, Mich. Rebuilt 1902.
Str Appomattox	2643	2082	319x42	1896	1896	Pickands, Mather & Co., Agts., Cleveland, O.
Sch Apprentice Boy	208	198	118x25	1867	1867	John Peil, Chicago, Ill.
Str †Arabia	1395	1202	221x34	1873	1873	Western Transit Co., Buffalo, N. Y.
Str Arcadia	230	146	118x26	1888	1888	Henry Starke, L. & L. Co., Arcadia, Mich.
Tug Arctic	71	42	76x18	1881	1881	Goodrich Trans. Co., Milwaukee, Wis.
Tug Arctic	23	17	50x18	1881	1881	John Lay, Sandusky, O.
Sch Arenac	521	496	179x35	1888	1888	Comstock & Sinclair, Duluth, Minn.
Sch Arendal	207	198	123x26	1873	1873	Louis Sands, Manistee, Mich.
Str Argo	721	490	192x35	1895	1895	Argo Steamship Co., Cleveland, O.
Scy Argo	14	14	36x14	1873	1873	F. H. Fitch, Frankfort, Mich.
Bge Argo	168	160	107x24	1863	1863	Ogdensburg Coal Co., Ogdensburg, N. Y.
Str †Argo	1089	740	173x31	1901	1901	A. Booth & Co., Chicago, Ill.
Sly Argo	9	9	35x9	1894	1894	F. M. Arden, Chicago, Ill.
Bge Argosy	168	160	107x24	1863	1863	Geo. Hall Coal Co., Ogdensburg, N. Y.
Str Argonaut	1118	984	213x35	1873	1873	N. & B. Mills, Marysville, Mich.
Str Ariel	201	119	95x28	1881	1881	Walkerville & Det. F. Co., Detroit, Mich.
Str Ariel	7	6	43x8	1898	1898	W. R. Hitchcock, Massena, N. Y.
Str Arta	13	9	46x13	1901	1901	E. Loesch, Erie, Pa.
Str Arizona	765	601	189x32	1868	1868	Gray Transportation Co., Cleveland, O.
Bge Ark	76	76	90x21	1900	1900	E. W. Visger, Alexandria Bay, N. Y.
Sch Armenia	2040	1919	288x44	1896	1896	W. Div. S. S. Co., Milwaukee, D. Sullivan & Co., Mngrs., Chicago, Ill.

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CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Str	Armour, P. D.....	1990	1452	264x40	1889	Est. of W. M. Egan, Arthur C. Helm, Mgr. , Chicago.
Sch	Armstrong, Thos. ...	89	85	82x21	1888	J. Fleury, Isle La Motte, Vt.
C. F.	Armstrong, Wm....	181	90	100x30	1876	D. H. Lyon, Ogdensburg, N. Y.
Scy	Arrow	39	37	65x15	1879	Benj. Hogenson, Ephraim, Wis.
Str	Arrow	365	182	165x28	1895	Sandusky & Isl. Stbt. Co., E. McFall, Mgr. , Sandusky, O.
Str	Arrow	14	9	46x10	1901	Geo. Waters, Jr., Frankfort, Mich.
Str	Arthur	36	18	55x14	1889	Cornelius Tamms, Dunkirk, N. Y.
Str	Arthur	25	13	54x15	1890	Keystone Lumber Co., Ashland, Wis.
Tug	Arthur D.	21	10	48x13	1889	Great Lakes Towing Co., Cleveland, O.
Tug	Arthur, P. W.	21	14	50x13	1875	Hans P. Hansen, Escanaba, Mich. Formerly Fred Engel.
Str	Arundell	339	257	166x26	1873	A. R. Lee, Detroit, Mich.
Sch	Ashford	132	106	95x17	1883	Wm. J. Warwick, Buffalo, N. Y.
Str	Ashland	97	57	87x19	1867	Schroeder Lumber Co., Milwaukee, Wis. Rebuilt 1899, formerly Str. A. C. Van Raalte.
Sch	Ashland	991	956	218x37	1886	Jas. Corrigan, Cleveland, O.
Sch	Athens	2073	1953	293x45	1897	Lake Erie Trans. Co., Cleveland, O.
Str	Atlanta	1129	958	200x32	1891	Goodrich Trans. Co., Chicago, Ill.
Str	Atlanta	197	106	109x23	1887	J. R. Snook, Mt. Clemens, Mich.
Sch	Atmosphere	275	261	134x25	1863	Donald Finlayson, Detroit, Mich.
Str	Auburn	1762	1662	258x35	1878	Western Transit Co., Buffalo, N. Y.
Str	Augusta	25	13	58x13	1889	Abram Fisher, Grand Haven, Mich.
Str	Augusta	11	5	60x 8	1901	Charles Kellogg, Ithaca, N. Y.
Sch	Augustus	54	52	74x18	1885	W. H. Reese, Pentwater, Mich.
Str	Aurora	3113	2999	352x44	1895	John Corrigan, Cleveland, O.
Sch	Aurora	2236	2181	290x41	1900	Henry Wineman, Jr., Detroit, Mich.
Gas	Ausable	19	13	45x11	1896	F. R. Wells, Burlington, Vt.
Sch	Ausable	102	100	62x17	1892	C. F. Huntley, Buffalo, N. Y.

Str Avon	1417	1147	251x35	1877	Ogdensburg Coal & T. Co., Ogdensburg, N. Y.
Sly Avoset	31	29	45x16	1893	Geo. J. Campbell, Cleveland, O. Abandoned.
Str Aztec	834	653	180x33	1889	Spence Bros., Cleveland, O.

B

Gvt Bab	12	57x 7	1900	Chas. E. Greening, Monroe, Mich.	
Tug Babcock, W. I.	63	71x17	1888	Great Lakes Towing Co., Cleveland, O.	
Tug Bacon, F. W.	37	68x14	1891	Frank J. Matters, Dunkirk, N. Y.	
Sch Bacon, Melvin S.	614	182x33	1874	J. C. Gilchrist, Cleveland, O.	
Str Badger State	1115	213x33	1862	Hugh R. Havey, Detroit, Mich.	
Str Baker, Fannie L.	43	21	68x17	1888	John Dunseith, Toledo, O.
Str Baker, Nettie	13	7	89x 9	1893	Name changed to Burgard.
Str Balcom	50	48	78x30	1882	Geo. H. Holt, Duluth, Minn.
Str Baldwin, S. C.	412	356	160x30	1871	S. R. MacLaren, Toledo, O.
Sch Baldwin, H. P.	495	470	177x33	1866	L. P. & J. A. Smith, Cleveland, O.
Tug Balize	250	157	130x21	1863	Thomas Charlton, N. Tonawanda, N. Y.
Sch Baltic	915	869	202x34	1890	Henry J. Pauly, Milwaukee, Wis.
Sch B and C.	99	71	112x17	1876	I. E. Lindquist, Chicago, Ill.
Str Banks, Louis	18	12	51x12	1897	Frank E. Gunther, Dunkirk, N. Y.
Str Bapst, Frank L.	42	28	59x17	1895	Empire Limestone Co., Buffalo, N. Y.
Str Barker, S. B.	176	131	96x17	1882	U. S. & Dom. Trans. Co., Booth Line, Chicago.
Sch Barnes, Bertha	330	314	151x30	1872	J. A. Myers, 167 Jackson st., Chicago, Ill.
Str Barnes, Frank C.	46	29	66x16	1892	A. O. Wheeler, Manitowoc, Wis.
Sch Barnes, C. C.	582	553	172x31	1873	L. S. Sullivan, Toledo, O.
Sch Barnes, Burt.	184	127	95x24	1882	Thos. E. Torison, Manitowoc, Wis.
Tug Barnhurst, H. G.	36	18	74x16	1885	James Kelly, Erie, Pa.
Str Barth, L. L.	633	491	185x35	1888	E. Hines Lumber Co., Chicago, Ill.
Str tBartlett, E. B.	1399	1075	265x38	1891	Pittsburg Steamship Co., Cleveland, O.
Str Battle, James	198	123	116x25	1900	City of Detroit Fire Com.
Str Bay State	59	29	53x18	1874	Francis Wells, Bay City, Mich.
Sch Beals, E. P.	373	355	187x26	1873	Geo. Hall Coal Co., Ogdensburg, N. Y.
Str Beard, James	86	67	73x17	1873	Ft. H'n & Sarnia Fy. Co., Port Huron, Mich.
Sly Beatrice	9	9	36x10	1888	R. Hilbert, Milwaukee, Wis.

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Str	†Beatty, Chas.	986	814	211x40	1902	Volunteer Trans. Co., Perry-Payne Bldg., Cleveland, O
Str	Beaver	121	80	98x19	1892	Peter D. Campbell, Charlevoix, Mich.
Sch	Beaver Queen	19	19	40x13	1899	John Watt, St. James, Mich.
Sch	Becker	50	50	64x17	1903	Jos. B. Blake, Buffalo, N. Y.
Sch	Becker, R. H.	140	133	108x23	1867	C. B. Freyberg, Sheboygan, Wis.
Str	Beckman, W. R.	12	6	45x11	1882	Richard Welsh, Erie, Pa. Rebuilt 1899.
Str	Beckwith, J. L.	103	84	67x22	1878	Geo. Kemp, Sault Ste. Marie, Mich.
Str	†Bedell, Ossian	296	192	104x28	1901	Ossian Bedell, Buffalo, N. Y.
Sch	†Bell, Sir I. L.	3418	3158	365x45	1896	Pittsburg Steamship Co., Cleveland, O.
Sch	Belle	104	98	94x24	1856	Chas. Gregory, Salem, Wis.
Str	Belle	37	18	60x13	1885	A. C. Mayo, Duluth, Minn.
Str	Belle	90	90	112x20	1900	J. A. Cusick, Green Bay, Wis.
Sch	Belle of Epoufette. .	19	17	54x13	1897	Jas. C. Gallagher, St. James, Mich.
Str	Bellinger, A. A.	14	7	43x12	1880	Jos. D. Kropp, Tonawanda, N. Y.
Sch	Beneteau, Maud ...	6	6	36x10	1879	F. H. C. Wood, St. James, Mich.
Str	Bennett, James W. .	81	40	87x17	1876	Bayfield T. Co., Bayfield, Wis.
Str	Benton	304	159	152x28	1867	W. E. Pierce, West Bay City, Mich.
Sch	Bertie	43	35	69x19	1896	Albert Leferest, Erie, Mich.
Str	Bermuda	1312	1079	220x41	1897	James Davidson, W. Bay City, Mich.
Sch	Berwyn	269	238	132x29	1866	J. B. Bates & Co., Chicago, Ill.
Str	†Bessemer, Sir H.	4321	3293	413x48	1896	Pittsburg Steamship Co., Cleveland, O.
Str	Bessie	89	44	97x20	1880	A. B. Meyer, Sandusky, O.
Str	Bielman, C. F.	2056	1709	291x41	1892	McLachlan Trans. Co., Port Huron, Mich.
Str	Bigelow, H. P.	46	37	67x14	1893	J. A. Davis, Alexandria Bay, N. Y.
Str	†Binghamton	1953	1722	265x39	1882	Union Steamboat Line, Buffalo, N. Y.
Str	Birchhead	540	360	156x27	1870	Jas. O'Connor, Tonawanda, N. Y.
Str	Birckhead, L.	92	16	61x16	1883	L. S. Sullivan, Toledo, O. Rebuilt 1901.
Str	Bird, Francis A.	14	7	40x12	1893	Robt. Jones, Buffalo, N. Y.
Sch	Birdie	11	11	36x13	1895	John Mason, Muskegon, Mich.
Sch	Bishop, Anna R.	448	365	146x34	1880	_____
Sch	Bissell, Arthur D. . .	187	112	96x17	1881	I. H. Hawley, Buffalo, N. Y.

Bge	Black Diamond	295	144x26	1875	Geo. Hall Coal Co., Ogdensburg, N. Y.
Sch	Black Diamond	552	171x35	1882	D. & C. Nav. Co., Detroit, Mich.
Str	Black Rock	1997	237x43	1897	R. J. Dunham, Chicago.
Sly	Blade	6	36x 8	1897	C. H. Thorne, Chicago, Ill.
Sch	Blaine, Jas. G.	555	177x33	1867	C. H. Ripson, Pulaski, N. Y.
Sch	Blake, E. R.	201	191 121x27	1867	Empire Limestone Co., Buffalo, N. Y.
Str	Blanchard, B. W.	1142	212x32	1872	Chas. W. Kotcher, Detroit, Mich.
Str	Blazier, J. S.	87	74x17	1867	Geo. Breymann, Toledo, O. Rebuilt 1890.
Sch	Bliss, A. T.	487	168x30	1881	S. R. Chamberlain, 6 Sherman, Chicago, Ill. Wrecked.
Str	Bloeker, Emma	31	56x13	1889	Chas. M. Hyttel, Sr., Racine, Wis.
Sch	Bloom, Nelson	549	197x31	1863	J. P. Harrow, Algonac, Mich.
Stp	Bloomer Girl	95	109x21	1894	Name changed to Silver Spray.
Scb	Blue Lodge	39	78x12	1887	Eugene D. Hall, Florida, O.
Scw	B No. 5	63	65x20	1882	Lake Superior Contracting & Dredging Co., Board of Trade, Duluth, Minn.
Scw	B No. 9	119	95x21	1888	
Scw	B No. 10	121	110x23	1887	
Scw	B No. 11	121	110x23	1888	
Scw	B No. 12	122	113x24	1888	
Scw	B No. 13	107	85x21	1891	
Scw	B No. 14	111	91x21	1888	
Scw	B No. 15	116	89x22	1891	
Scw	B No. 17	122	113x24	1898	
Scw	B No. 18	136	112x24	1898	
Scw	B No. 19	169	115x24	1899	
Scw	B No. 20	167	115x24	1899	
Scw	B No. 21	398	130x32	1900	
Scw	B No. 22	399	146x32	1901	
Scw	B No. 16	116	89x22	1891	
Slp	Bobolink	5	31x11	1897	Samuel McElroy, Duluth, Minn.
Sch	Bock, Isolda	70	76x21	1891	Wm. H. Rees, Clayton, N. Y.
Sch	Bolivia	335	135x26	1874	J. J. Olson, Manitowoc, Wis. Geo. Hall Coal Co., Ogdensburg, N. Y.

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Str	Bolton, Chas. E.	20	12	49x14	1882	Charles P. Donohue, Cleveland, O.
Str	Bon Ami	226	149	108x21	1894	White Line Trans Co., Duluth, Minn.
Str	Bond, Hiram R.	230	138	113x26	1888	Jas. T. Bannon, Milwaukee, Wis.
Str	Bond, Nelson	21	10	59x13	1891	Wm. W. Brown, Detroit, Mich.
Str	Bonita	73	49	110x16	1892	Isaac Stephenson, Marinette, Wis.
Str	Bonita	8	5	37x 8	1901	Andrew Jackson, Oshkosh, Wis.
Tug	†Bonita .....	...	...	68x17	1903	Graham & Morton T. Co., Chicago, Ill.
Sip	Bonner, J.	74	39	83x19	1901	Lewis Van Winkle, Vans Harbor, Mich.
Sch	Bonnie Boy	21	19	43x13	1899	Wm. Geer, Charlevoix, Mich.
Str	†Bos, C. J.	34	23	59x14	1898	Wm. Ver Duin, Grand Haven, Mich.
Sip	Boscobel	76	38	76x26	1880	S. W. Hollister, Oshkosh, Wis. Rebuilt 1902.
Sch	Boscobel	508	478	166x82	1876	L. B. Parker, Marine City, Mich. Sunk.
Str	†Boston	1829	1669	263x86	1880	Western Transit Co., Buffalo, N. Y.
Sch	Bottsford, R.	499	474	167x82	1882	John C. Pringle, St. Clair, Mich.
Sch	Bourke, Mary N.	920	874	219x35	1889	Geo. Nester, Detroit, Mich.
Str	Boutin, N.	46	23	68x18	1882	Frank Boutin, Sr., Bayfield, Wis.
Sch	Boyce, G. J.	319	303	136x30	1884	Ole Hanson, Milwaukee, Wis.
Sch	Boyce, Jessie L.	196	186	121x25	1861	O. Christensen, Chicago, Ill.
Str	Boyce, Isabella J.	368	316	138x20	1889	Kelly Isl. Lime & Trans. Co., Cleveland, O.
Str	Boyce, Mary H.	700	476	181x84	1888	F. W. Smith, Milwaukee, Wis. Rebuilt 1892.
Tug	Boyd, Harry H.	36	24	68x15	1895	Simon Schacht, Erie, Pa.
Tug	Boynton, C. L.	103	51	86x21	1894	Great Lakes Towing Co., Cleveland, O.
Ltr	Bradley, A.	191	...	...	1857	Thos. Bradwell, Chicago, Ill. Formerly Sch. A. Bradley
Str	Bradley, Chas. H.	804	624	201x37	1890	O. W. Blodgett, Bay City, Mich.
Str	Bradshaw, Mabel	391	177	135x26	1889	White Line Trans. Co., Duluth, Minn.
Slp	Bradwell, Hattie	26	24	50x14	1892	John W. Wells, Menominee, Mich.
Tug	Bradwell, J. B.	62	42	74x17	1900	Thos. Bradwell, Chicago.
Str	†Brady, John I.	118	59	96x21	1891	Gulf Co., Chicago, Ill.
Sch	Brainard, Katie	412	393	169x30	1871	W. E. Donnelly, Saginaw, Mich.
Sch	Brake, Wm.	318	302	148x26	1867	Fred. Kirker, Bay City, Mich.
Str	†Bransford	457	3386	41x50	1902	W. A. Hawgood, Cleveland, O.
Str	†Brazil	3186	1655	276x40	1890	G. W. Maytham, Buffalo, N. Y.

Sch	Breymann, G. H. . . .	60	41	75x19	1903	John A. Breyman, Toledo, O.
Sch	Bridgeport	125	125	95x19	1880	Thos. M. Ryan, Buffalo, N. Y.
Sch	Brier	87	59	100x17	1882	E. A. Brown, Chicago, Ill.
Sch	Brightie	600	570	182x38	1868	O. W. Blodgett, Bay City, Mich.
Bge	Brink, Ben	317	317	150x29	1888	Western Transit Co., Buffalo, N. Y.
Str	Britannic	1121	904	219x36	1888	H. McMorran, Port Huron, Mich.
Str	†Briton	2348	1875	296x40	1891	Pittsburg Steamship Co., Cleveland, O.
Tug	Brockway, Geo. E. . .	164	82	112x20	1867	Great Lakes Towing Co., Cleveland, O.
Sch	Bronson, Tracy J. . .	277	263	137x26	1857	Buffalo Dredging Co., Buffalo, N. Y.
Out of commission.						
Str	Brooks, H. G.	20	14	57x14	1888	Thompson & Lamb, Toledo, O. Rebuilt.
Str	Brooks, James N. . .	10	5	41x11	1872	Frank Chapek, Algoma, Wis.
Str	†Brooks, LeRoy . . .	41	25	75x14	1891	Herman D. Rehberg, Middle Bass Island, O.
Str	†Brower, A. G. . . .	3582	2778	846x48	1902	U. S. T. Co., 1105 Williamson Bldg., Cleveland.
Str	Brower, Henry F. . .	30	15	60x15	1882	Jacob Johnson, Bayfield, Wis.
Str	†Brown, Harvey H. .	2673	1874	851x40	1894	Northwestern Trans. Co., Detroit, Mich.
Str	Brown, Willie	19	10	47x13	1871	A. C. McLean, Saginaw, Mich.
Tug	Brown, Tom	37	18	65x14	1870	Wm. Harman, Chicago, Ill.
Str	Brown, Fayette . . .	2080	1217	252x40	1887	Northwest'n Trans. Co., 15 Atwater Bld., Detroit.
Sch	Brown, Belle	217	207	124x27	1873	Wm. Mueller Co., Chicago Ill.
Str	†Brown, W. L.	4998	3967	430x50	1901	C. W. Elphicke (Federal S. S. Co.), Chicago.
Str	†Brown, W. W. . . .	3582	2778	846x48	1902	U. S. T. Co., 1105 Williamson Bldg., Cleveland.
Str	Brown, M. P.	60	54	...	1890	Geo. B. Hall, Rochester, N. Y.
Str	Brownie	13	6	65x10	1896	Geo. E. Morse, Clayton, N. Y.
Str	Bruce	50	25	63x17	1883	R. Knox, Ford River, Mich.
Str	Bruce, B. F.	35	17	58x15	1893	F. P. Nestor, Duluth, Minn.
Str	Bryno, N. H.	12	7	53x 8	1885	A. C. Majo, Duluth, Minn.
Sch	†Bruno Mawr	4294	3853	400x50	1900	Pittsburg Steamship Co., Cleveland, O.
Tug	Buckeye	32	22	55x14	1901	Penna. Fishing Co., Erie, Pa.
Sch	Buckeye State . . .	518	492	171x32	1873	J. L. Crosthwaite, Buffalo, N. Y.
Sch	Buckhout, B. B. . .	331	334	158x28	1873	A. C. McLean, Saginaw, Mich.
Str	Buckhont	25	17	60x12	1901	Chicago, Ill.
Str	Buckley, Edward . .	414	313	154x31	1891	E. Buckley, Manistee, Mich.
Sch	Buckley, James . . .	442	160	81x10	1884	Ogdensburg Coal & T. Co., Ogdensburg, N. Y.
Str	Buell, F. R.	1498	1199	194x36	1888	Tonawanda Barge Line, N. Tonawanda, N. Y.
Str	Bues, H. F.	25	12	51x13	1873	W. S. Edwards, Sault Ste. Marie, Mich.
Tug	Buffalo	60	30	68x17	1887	Great Lakes Towing Co., Cleveland, O.

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AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Bge	Buffalo	308	308	161x30	1890	Pickands, Mather & Co., Cleveland, O.
Str	†Buffalo	3951	3272	381x50	1899	Western Transit Co., Buffalo, N. Y.
Sch	Buffalo	788	711	215x35	1871	Adam Hartman, Tonawanda, N. Y.
Str	Bulgaria	1888	1486	280x39	1887	Jas. Corrigan, Cleveland, O.
Str	†Bunsen, Robt W. E.	5181	4012	439x50	1900	Pittsburg Steamship Co., Cleveland, O.
Str	Burch, A. W.	22	15	64x12	1882	Chas. F. Mischler, Cleveland, O. Rebuilt 1901.
Str	Burgard	13	7	39x 9	1893	Henry P. Burgard, Buffalo, N. Y.
Str	Burger	47	32	69x18	1903	John Coffey, Manistique, Mich.
Tug	Burke, Robt. E.	73	49	84x20	1899	H. J. Howard, Chicago, Ill.
Str	Burleigh	111	55	99x20	1878	Lake Champlain Trans. Co., Whitehall, N. Y.
Str	Burnham, George ..	382	219	149x29	1880	A. Green, Green Bay; and F. Schwerman, Milwaukee, Wis.
Tug	Burns, James	22	12	52x13	1893	Penna. Fishing Co., Erie, Pa.
Str	Burroughs, Geo. T. ..	130	111	109x24	1881	Standard Contracting Co., Cleveland, O.
Sch	Burton, Chas. H.	514	489	158x30	1873	Thos. McDermott, Buffalo, N. Y.
Sch	Burton, Lomie A.	203	198	128x25	1878	Peder Hansen, Washington Harbor, Wis.
Str	Burton, S. S.	33	16	44x14	1888	E. D. Carter, Erie, Pa. Abandoned.
Str	Burton, R. A.	361	329	135x30	1886	A. I. Holloway, Buffalo, N. Y.
Str	Business	958	772	191x34	1881	Jas. T. Matthews, Detroit, Mich.
Sch	Butcher Boy	859	841	147x29	1868	Wm. Mueller Co., Chicago, Ill.
Str	Butler, Frank S.	38	19	65x14	1865	S. C. Schenck, Toledo, O.
Sch	Butman, Myron	424	403	164x31	1885	S. R. Maclaren, Toledo, O.
Str	Butters, Marshall F.	876	229	164x30	1882	Robert Reed, Michigan City, Ind.
Scw	B. W. 16.	116	116	89x12	1891	Butler Bros., Duluth, Minn.
Tug	Byers, James	54	27	69x17	1888	Great Lakes Towing Co., Cleveland, O.
C						
Str	Cadillac	19	11	50x13	1901	Timothy Hurley, Detroit, Mich.
Str	†Cadillac	1263	1068	230x37	1882	Cleveland Cliffs Iron Co., Cleveland, O.

Sch	Calumet, Deluc	400	240	104x20	1890	Peter Hanson, Chicago, Ill.
Str	Calumet, J. W.	85	24	60x13	1890	Peter Jensen, Grand Haven, Mich.
Tug	Calumet	49	24	64x17	1888	Chic. & Gt. Lakes Dredg. & Dock Co., Chicago.
						Abandoned.
Tug	Calumet	62	31	73x19	1892	Conrad Niederman, Milwaukee, Wis.
Str	†Cambria	1878	1977	280x40	1887	Pittsburg Steamship Co., Cleveland, O.
Str	Cambria	48	24	94x12	1884	John Stevens, Neenah, Wis.
Tug	Campbell, Ben	59	29	74x17	1894	Great Lakes Towing Co., Cleveland, O.
Str	Campbell, Gordon	1100	785	205x32	1871	Wm. F. Carroll, Ashland blk., Chicago.
Sch	Campbell, Ralph	217	192	127x25	1855	Wm. Drieske & Co., Chicago.
Tug	Canfield, Frank	48	25	62x16	1875	A. O. Wheeler, Manistee, Mich.
Str	Cangarda	116	63	103x17	1901	W. H. Hanson, Schenectady, N. Y.
Str	Canisteco	595	539	182x34	1886	Tonawanda Barge Line, Chas. Weston, Mngr., N. Tonawanda, N. Y.
Sch	Cape Horn	202	192	121x25	1887	C. A. Phelps, Grand Rapids, Mich.
Str	Caprice	20	11	48x12	1895	W. A. Pungs, Detroit, Mich. Abandoned.
Str	Capt. Dave Wagner	19	13	54x11	1901	Dave Wagoner, Alexandria Bay, N. Y.
Str	Capt. Hemans	34	26	50x10	1902	Sylvester Hemans, Sackets Harbor, N. Y.
Str	Captain Visger	29	15	84x12	1895	W. L. Visger, Alexandria Bay, N. Y.
Bge	Carbonate	94	94	116x28	1896	Empire Limestone Co., Buffalo, N. Y.
Str	Carl	33	16	57x15	1889	W. H. Myers, Milwaukee, Wis.
Sch	Carney, Fred	361	342	152x30	1893	Ogdensburg C. & T. Co., Ogdensburg, N. Y.
Str	†Carnegie, Andrew	4106	3067	403x48	1897	Wilson Transit Co., Cleveland, O.
Tug	Carpenter, A. A.	38	19	60x15	1880	A. A. Porter, Duluth, Minn.
Sch	Carpenter, A. A.	540	524	165x33	1881	S. R. MacLaren, Toledo, O.
Str	Carpenter, O. O.	364	268	127x30	1891	Runnels & Sinclair Port Huron, Mich.
Bge	Carrie	15	15	.....	1901	La Crosse, Wis.
Str	Carrie J.	30	25	62x10	1898	S. H. Jenks, Grand Rapids, Mich.
Sch	Carrie L.	8	8	33x11	1895	F. H. Theobald, Erie, Pa.
Sch	Carrier	187	177	123x26	1865	J. D. Marshall, Chicago, Ill.
Tug	Carrington, E. T.	52	36	76x19	1876	C. T. Hartman, Duluth, Minn.
Str	†Carrington, M. D.	64	32	67x16	1875	Great Lakes Towing Co., Cleveland, O.
Sch	†Carrington	3180	2861	352x44	1897	Pittsburg Steamship Co., Cleveland, O.
Str	Cartagena	1532	1418	241x40	1901	James Davidson, Bay City, Mich.
Str	Carter, B. F.	210	132	112x24	1877	Ossian Cook, Oshkosh, Wis.
Sch	Carter, Libbie	33	32	62x17	1882	W. Williamson, Manitowoc, Wis.
Str	Carter, W. J.	235	171	122x28	1886	John W. Greenwood, Buffalo, N. Y.

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CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Sty	Caryl	6	5	31x 7	1896	G. W. Clarke, Chicago, Ill.
Tug	Cascade	72	49	72x19	1895	Great Lakes Towing Co., Cleveland, O.
Tug	Cascade	77	38	73x19	1892	Great Lakes Towing Co., Cleveland, O.
Str	Case	2278	1901	286x42	1889	J. C. Gilchrist, Cleveland, O.
Sch	Case, J. I.	827	786	208x34	1874	James Corrigan, Cleveland, O.
Sch	Case, Wm.	266	253	136x26	1855	John J. Phillips, Cleveland, O.
Sch	Casey, Lyman	291	277	136x26	1867	James Graham, Detroit, Mich.
Str	†Castalia	2512	1840	292x40	1890	H. H. Brown & Co., Cleveland, O.
Str	Castanet	34	23	89x15	1898	W. L. Visger, Alexandria Bay, N. Y.
Tug	Castle, Charles .....	...	...	88x...	....	Capt. Ed. Dahlke, Cleveland, O.
Tug	Castle, W. B.	172	110	114x20	1862	R. P. Thompson, Port Huron, Mich.
Sty	Catherine	46	30	67x18	1892	Harry T. Wicks, Saginaw, Mich.
Str	†Cayuga	27	16	57x11	1872	Isaac Lanford, Montague, Mich.
Sch	Celina	122	99	86x17	1900	M. M. Drake, Buffalo, N. Y.
Sch	Celt	11	10	39x10	1867	Frank B. Lazier, Duluth, Minn.
Str	Centennial	29	18	49x13	1876	John H. Lewis, Muskegon, Mich.
Sch	Centennial	8	7	33x12	1879	Wm. Brooker, Algonac, Mich. Rebuilt.
Str	†Centurion	3401	2728	360x45	1893	Hopkins S. S. Co. (Cl. Cliffs I. Co.), Cleveland
Sch	Challenge	87	82	87x22	1852	Frank G. Bigelow, Milwaukee, Wis.
Tug	Chamberlain, H. L. ..	56	28	65x16	1889	Great Lakes Towing Co., Cleveland, O.
Tug	Chamberlain, Selah. ..	33	16	59x15	1884	W. A. McGillis & Co., Cleveland, O.
Sch	Chambers, Charles. ..	90	85	67x22	1895	Chas. Chambers, Detroit, Mich.
Sch	Champion	585	556	182x33	1863	J. L. Crosthwaite, Buffalo, N. Y. Wrecked.
Tug	Champion	263	147	134x21	1868	C. A. Chamberlin, Detroit, Mich. Burned.
Sch	Champion	14	13	48x13	1891	H. A. Straubel, Green Bay, Wis.
Str	Charles D.	25	23	60x14	1894	Chas. W. McConnell, Indian River, Mich.
Str	Charlotte	73	50	65x12	1886	F. J. Scott, Rochester, N. Y.
Sch	Charlotte	54	54	73x20	1901	C. A. Lawrence, Chicago, Ill.
Sch	Charlotte R.	18	17	44x12	1895	C. A. Burton, Chicago, Ill.
Slp	Charlotte	25	18	61x16	1885	Mary A. Burns, Buffalo, N. Y.
Tug	Charm	16	8	50x11	1878	E. H. Brown, Chicago, Ill. Broken up.
Str	Charm	32	21	73x19	1882	Great Lakes Towing Co., Cleveland, O.

Str †Chateaugay	.....	742	576	196x29	1888	Champlain T. Co., Burlington, Vt.
Sch Chattanooga	.....	2839	2266	308x45	1898	Cleveland Cliffs Iron Co., Cleveland, O.
Sew Cheboygan	.....	95	95	.....	1894	W. A. Whitney, W. Superior, Wis.
Sch Checotah	.....	658	597	198x34	1870	Henry McMoran, Port Huron, Mich.
Sty Chemaun	.....	8	5	31x 6	1895	Geo. Moore, Jr., Buffalo, N. Y.
Str †Chemung	.....	2615	1943	325x41	1888	Union Steamboat Line, Buffalo, N. Y.
Tug Cheney, O. W.	.....	46	24	66x16	1881	Great Lakes Towing Co., Cleveland, O.
Tug Cheney, O. W.	.....	56	28	66x17	1890	Great Lakes Towing Co., Cleveland, O.
Str Chequamegon	.....	141	112	112x22	1903	Chequamegon Bay Trans. Co., Ashland, Wis.
Str Cherokee	.....	1304	1019	208x35	1889	W. S. Brainerd, Toledo, O.
Sly Chetopa	.....	6	6	31x 9	1890	Warren Nichols, Chicago, Ill.
Str Chicago	.....	746	589	205x30	1874	Goodrich Trans. Co., Chicago, Ill.
Tug Chicago	.....	40	20	60x17	1882	Great Lakes Towing Co., Cleveland, O.
Str †Chicago	.....	3195	2546	324x44	1901	Western Transit Co., Buffalo, N. Y.
F. B. Chicago	.....	80	.....	.....	1882	Chicago Fire Dept., Rebuilt 1901.
Sch Chickamauga	.....	2472	2399	322x45	1898	W. C. Richardson, Mngr., Cleveland, O.
Sch Chieftain	.....	2704	2692	342x46	1902	James Davidson, Bay City, Mich.
Str †Chili	.....	2584	1845	320x42	1895	M. M. Drake, Buffalo, N. Y.
Str †China	.....	1239	991	210x32	1871	E. & W. T. Co., A'r L., Buffalo, N. Y.
Ywl Chinook	.....	10	10	35x11	1893	J. J. Gill, Steubenville, O.
Str Chipman, Susie	.....	216	164	122x26	1885	Julius Kroos, Sheboygan, Wis.
Sch Chippewa	.....	1290	1239	220x36	1890	W. S. Brainerd, Toledo, O.
Str †Chippewa	.....	996	677	200x34	1900	Arnold Transit Co., Mackinac, Mich.
Str †Chisholm Jr., Alv. S.	.....	435	259	150x35	1900	Kelly Isl. Lime & T. Co., Cleveland, O.
Str †Chisholm, Wm.	.....	1581	1246	246x36	1884	Wm. Gerlach, Cleveland, O.
Str †Choctaw	.....	1773	1256	266x38	1892	Cleveland Cliffs Iron Co., Cleveland, O.
Sch Christian	.....	32	32	70x17	1868	Frank Smith, Port Huron, Mich.
Sch Christiana	.....	55	31	64x13	1874	F. Dediken, Menominee, Mich.
Str Christie, T. S.	.....	517	471	160x30	1885	Geo. Engelking, Chicago, Ill.
Str †Christopher	.....	4260	3197	410x48	1901	W. H. Meyer, Milwaukee, Wis.
Ltr Church, H. F.	.....	326	309	138x26	1874	Great Lakes Towing Co., Cleveland, O.
Sly Cinderella	.....	28	27	55x16	1886	F. E. Woodworth, Rochester, N. Y.
Tug Circle	.....	25	10	46x13	1885	Government Engineer, Duluth, Minn.
Sty Cisco	.....	15	12	38x10	1889	William Brown, Chicago, Ill.
Tug †Ciscoe	.....	15	8	44x12	1891	Ranney Fish Co., Cleveland, O.
Str Ciscoe	25	15	56x14	1895	Thos. Friant, Thompson, Mich.
Sch City	41	35	75x18	1887	Chris. Braunsdorf, Clay Banks, Wis.

Wrecked.

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CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Stp	City of Alpena.....	1735	1282	266x69	1893	D. & C. Nav. Co., Detroit, Mich.
Str	City of Bangor.....	3690	2976	372x44	1896	Eddy-Shaw Trans. Co., Bay City, Mich.
Str	City of Berlin.....	2051	1711	298x41	1891	Henry Wineman, Jr., Detroit, Mich.
Stp	City of Buffalo.....	2998	1262	298x75	1896	C. & B. Transit Co., Cleveland, O.
Str	City of Charlevoix....	885	588	185x33	1870	Northern Mich. Trans. Co., Chicago, Ill.
Sch	City of Chicago....	327	310	140x30	1861	E. Hines Lumber Co., Chicago, Ill.
Stp	City of Chicago.....	1164	737	226x34	1890	Graham & Morton Trans. Co., Chicago, Ill.
Stp	City of Cleveland....	1923	1324	272x40	1886	D. & C. Nav. Co., Detroit, Mich.
Stp	City of Concord....	385	282	135x25	1868	N. Mills, Marysville, Mich.
Stp	City of Detroit.....	1919	1454	286x40	1889	D. & C. Nav. Co., Detroit, Mich.
Stp	City of Erie.....	2498	1280	316x44	1898	C. & B. Transit Co., Cleveland, O.
Stp	City of Fremont....	705	557	190x27	1866	Barry Stbt. Line, Chicago, Ill.
Str	City of Genoa.....	2446	1817	301x24	1892	I. C. Gilchrist, Cleveland, O.
Str	City of Glasgow....	2400	1797	297x41	1891	Hutchinson & Co., Cleveland, O.
Sch	City of Gr'd Haven..	200	190	127x26	1872	Frank Geele, Sheboygan, Wis.
Sch	City of Gr'd Rapids	187	177	121x26	1878	Cornelius Anderson, Racine Wis.
Str	City of Grand Rapids	399	300	125x26	1879	Daniel F. Toomey, Dunkirk, N. Y.
Str	City of Green Bay..	257	178	134x26	1880	Warren C. Shilling, Green Bay, Wis.
Str	City of Holland....	439	331	141x29	1893	C. W. Thomson, Mngr., St. Clair, Mich.
Str	City of Kalamazoo..	728	563	161x31	1891	Dunkley-Williams Trans. Co., So. Haven, Mich.
Str	City of London....	2005	1675	297x41	1893	R. J. Dunham, Chicago.
Stp	City of Mackinac....	1749	1277	266x69	1893	D. & C. Nav. Co., Detroit, Mich.
Str	City of Marquette..	19	9	49x12	1882	Arthur S. Osburn, Duluth, Minn.
Str	City of Marquette..	341	295	114x25	1890	J. M. Longyear, Marquette, Mich.
Stp	City of Milwaukee..	1148	871	230x33	1881	Now Holland.
Stp	City of Milwaukee..	132	97	106x23	1884	Geo. A. Douglas, Cleveland, O.
Str	City of Mt. Clemens	2109	1772	301x42	1892	I. C. Gilchrist, Cleveland, O.
Str	City of N. Baltimore	80	60	94x20	1875	H. M. Wright, Bay City, Mich.
Str	City of Paris.....	2062	1714	298x41	1891	Edw. Smith, Mngr, Buffalo, N. Y.
Str	City of Racine.....	1041	801	203x40	1889	Goodrich Trans. Co., Chicago, Ill.
Stp	City of Rome.....	1908	1594	268x40	1881	J. C. Gilchrist, Cleveland, O.
Str	City of Rosford....	355	288	133x31	1899	John Homegardner, Sandusky, O.
Sch	City of Sheboygan..	248	210	135x27	1871	W. Schlosser, et al., Milwaukee, Wis.

Str	City of So. Haven..	1719	1169	247x40	1903	Dunkley-Williams Co., S. Haven, Mich.
Sch	City of the Lakes..	16	15	51x14	1866	Thos. Wolf, Shepardsville, O.
Str	†City of the Straits..	1094	811	284x36	1878	D. & C. Nav. Co., Detroit, Mich.
Str	†City of Toledo.....	1003	654	212x31	1891	White Star Line, Detroit, Mich.
Sch	City of Toledo.....	245	233	160x25	1865	Wm. J. Clarke, Toledo, O.
Str	City of Traverse....	1153	925	214x33	1871	W. H. Singer, Duluth, Minn.
Sch	Clara	24	20	55x14	1898	Fred Olson, Manistee, Mich.
Str	Clara	21	10	60x12	1899	H. H. Westinghouse, Ithaca, N. Y.
Sly	Clara Belle	46	31	73x16	1876	F. W. Gilchrist, Alpena, Mich.
Str	Clara H.	6	5	29x11	1901	E. L. Springer, Chicago, Ill.
Str	Clara S.	17	12	50x13	1896	Carl Johnson, Erie, Pa.
Str	†Clark, J. T.	1711	1513	240x36	1881	E. & W. T. Co., An'r Line, Buffalo, N. Y.
Ege	Clark	164	164	110x25	1898	Alexander Ruelle, Detroit, Mich.
Str	Clayt	10	9	40x10	1887	C. M. Robinson, Cheboygan, Mich.
Sly	Clayton, Belle....	14	13	41x13	1885	H. E. Conrad, Clayton, N. Y.
Sch	Clayton, Wm. E....	140	110	96x17	1887	W. H. Scott, Buffalo, N. Y.
Sch	Clement S.	447	486	163x30	1863	Mutual Transit Co., Buffalo, N. Y.
Str	†Clemson, D. M....	5531	3892	448x52	1903	Provident S. S. Co., A. B. Wolvin, Mangr. , Duluth, Minn.
Str	Clifford	10	7	42x 9	1902	Anna Stuefelbeam, South Haven, Mich.
Sch	Clint, D. K.	729	692	163x32	1872	Teagan Bros., Detroit, Mich.
Str	Clinton	124	62	96x24	1898	Chas. Lonsby, Mt. Clemens, Mich.
Ege	Clinton, W. R.	259	236	160x24	1866	Union Towing & Wrecking Co., Duluth, Minn.
Sly	Clover	15	14	33x11	1885	A. E. Patterson, Alexandria Bay, N. Y.
Str	Clow, Martha	52	46	65x17	1898	Martha M. & T. Co., Chicago, Ill.
Str	Clyde	1306	1158	256x36	1881	Tonawanda I. & S. Co., N. Tonawanda, N. Y.
Str	Coaster	119	90	98x22	1889	Joseph Saunders, Cape Vincent, N. Y.
Sch	Coates, L. B.	189	179	116x25	1874	Stephen Walczak, Milwaukee, Wis.
Tug	Coates, Peter.....	82	20	61x15	1886	Herbert J. Knight, Erie, Pa.
Sch	Cobb, Ahira	945	897	201x33	1872	M. A. Bradley, Cleveland, O.
Str	Cockell, Bertha L..	22	12	58x12	1884	Herbert J. Knight, Erie, Pa.
Str	†Codorus	2165	1802	275x40	1892	E. & W. T. Co. An'r L., Buffalo, N. Y.
Str	Coe, S. S.	81	15	66x15	1868	Independent Tug Line, Buffalo, N. Y.
Str	Coffinberry, H. D..	778	509	191x33	1874	E. M. Carleton, Cleveland, O.
Tug	Cohen, Barney	16	11	46x12	1891	Romanus Shepherd, Huron, O.
Str	Colborn, A. R....	275	207	129x27	1882	Geo. G. Oliver, Michigan City, Ind.
Str	†Colby, Joseph L....	1245	914	265x36	1890	Pittsburg Steamship Co., Cleveland, O.

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Str	†Cole, Darius	538	402	201x32	1885	Star-Cole Co., Detroit, Mich.
Str	†Colgate, Jas. B.	1713	1318	308x38	1892	Pittsburg Steamship Co., Cleveland, O.
Str	Colonel	9879	3044	356x50	1901	A. McVittie, Detroit, Mich.
Str	Colonial	1713	1323	244x36	1892	J. C. Gilchrist, Cleveland, O.
Str	Colonial	110	80	91x17	1895	De Witt Mickley, Waterloo, N. Y.
Bge	Colorado	186	176	118x26	1866	Charlevoix Lumber Co., Charlevoix, Mich.
Tug	†Colton, A. W.	92	48	81x18	1881	Great Lakes Towing Co., Cleveland, O.
Str	Columbia	26	17	58x12	1896	Jasper Ellis, Clayton, N. Y.
Str	Columbia	1373	1053	235x35	1881	J. C. Gilchrist, Cleveland, O.
Str	Columbia	139	90	109x20	1892	H. J. Webb, Cassopolis, Mich.
Seb	Columbia	130	104	92x17	1889	Joseph W. Otts, Buffalo, N. Y.
Str	Columbia	83	41	81x17	1892	Peter Anderson, Marquette, Mich.
Tug	†Columbia	114	77	84x20	1900	Michael Sullivan, Detroit, Mich.
Str	†Columbia	968	549	200x..	1902	Det. B. I. & W. Ferry Co., Detroit.
Dge	Columbia	522	392	124x40	1903	Lake Superior Con. & D. Co., Duluth, Minn.
Sch	Columbian	356	338	138x26	1864	E. J. Cuyler, Avon, O.
Str	†Columbus, Ch'p't.	1511	945	362x42	1893	Goodrich Trans. Co., Chicago, Ill.
Str	Combine	25	12	62x16	1891	R. C. Brittain, Saugatuck, Mich.
Tug	Comet	118	13	50x12	1899	Herbert J. Knight, Erie, Pa.
Str	Commerce	112	98	99x19	1878	Lake Sand & Gravel Co., Toledo, O.
Sch	Commodore	550	510	176x34	1880	Capt. Geo. Flood, Chicago, Ill.
Tug	Commodore	40	20	69x14	1865	Knud Pederson, Tonawanda, N. Y.
Str	Commodore	2082	1927	265x42	1875	Chic. & Gt. Lakes Dredg. & Dock Co., Chicago.
Bge	Companion	196	124	124x28	1888	Western Transit Co., Buffalo, N. Y.
Scw	Company I.	25	25	..x..	1897	Alex. Ruelle, Jr., Detroit, Mich.
Gyt	Comrade	14	9	60x 8	1903	W. A. Whitney, W. Superior, Wis.
Sch	†Constock, J. B.	325	306	199x30	1891	O. J. Mulford, Detroit, Mich.
Sch	Condor	30	29	58x16	1871	J. W. Ritchie, Bay City, Mich.
Str	Conemaugh	1609	1453	251x36	1880	Raymond R. Thompson, S. Haven, Mich.
Str	Conestoga	1726	1562	252x36	1878	E. & W. T. Co., An'r L., Buffalo, N. Y.
					1878	E. & W. T. Co., An'r L., Buffalo, N. Y.

Nebraska, Rebuilt 1902.

Tug	Conneaut	.....	62	31	69x18	1893	Great Lakes Towing Co., Cleveland, O.
Tug	Conneaut	.....	239	227	120x25	1873	Thos. Lyon, Ludington, Mich. Abandoned.
Sch	Connell, W. & J.	.....	42	21	64x15	1894	Name changed to America.
Sch	Connelly Bros.	.....	751	694	201x36	1896	Calbick Trans. Co., Chicago, Ill.
Tug	Connelly, Dan.	.....	36	18	65x16	1887	Peter Ditchy, Sandusky, O.
Str	Constitution	.....	96	48	89x18	1884	James Magee, Duluth, Minn.
Tug	Constitution	.....	46	35	72x16	1900	Great Lakes Towing Co., Cleveland, O.
Sch	Constitution	.....	422	401	145x32	1891	Runnels & Sinclair, Port Huron, Mich.
Sch	†Constitution	.....	9231	2997	379x14	1897	Inter-Lake (P. M. & Co.) Co., Cleveland, O.
Sy	Contaluta	.....	38	19	75x13	1893	Norman D. Carpenter, Detroit, Mich.
Tug	Contest	.....	14	7	52x10	1894	W. A. Angell, Chicago, Ill.
Str	Continental	.....	1506	1188	244x36	1892	Republic Iron Co., Perry-Payne Bldg., Cleveland.
Sch	Cook, E. P.	.....	135	115	96x17	1881	Albert Scott, Buffalo, N. Y.
Sch	Cook, Mary Ellen	.....	132	126	118x25	1875	Herman A. Oisen, Milwaukee, Wis.
Str	†Cook, Robert H.	.....	157	78	102x21	1882	Lake Champlain Trans. Co., Whitehall, N. Y.
Str	Cooper, George	.....	53	26	68x18	1891	Robt. Smith, Duluth, Minn.
Str	Cooper, Ralph M.	.....	27	17	58x14	1893	Leonard Robinson, Montague, Mich.
Gas	Coot	.....	5	5	30x9	1898	—, Sag Harbor, N. Y.
Str	Coquette	.....	8	5	22x8	1882	H. D. Curtis, Oshkosh, Wis.
Slip	Cora	.....	6	6	34x12	1896	H. Robbins, Clayton, N. Y.
Sch	Cora	.....	44	41	70x17	1879	John Lockland, Menominee, Mich.
Sch	Cora A.	.....	370	327	146x31	1889	Wm. Walsh, Chicago, Ill.
Sch	Coral	.....	105	100	88x24	1865	Thos. Millor, Boyne City, Mich.
Str	†Coralia	.....	4330	3351	413x48	1896	Pittsburg Steamship Co., Cleveland, O.
Sch	†Corliss, George H.	.....	3259	3124	352x44	1896	Pittsburg Steamship Co., Cleveland, O.
Str	Cormorant	.....	977	817	218x34	1873	E. Hines Lumber Co., Chicago.
Str	Cornelia	.....	38	19	61x16	1882	Spencer Meade, Elmira, N. Y.
Str	Cornelia	.....	59	40	88x15	1898	Wm. J. Wicks, Saginaw, Mich.
Sch	Cornelia	.....	100	95	86x21	1900	W. H. Consaul, Clayton, N. Y.
Sch	†Cornell Ezra	.....	30	15	72x11	1880	E. G. Wyckoff, Ithaca, N. Y.
Sch	Cornell, May	.....	8	7	32x11	1882	Arthur Tibbitts, Manistee, Mich.
Str	†Cornell	.....	5082	3986	454x50	1900	Pittsburg Steamship Co., Cleveland, O.
Sch	Corning, Ida	.....	444	422	168x31	1881	Hines Lumber Co., Chicago, Ill.
Str	†Corona	2408	1828	299x40	1888	Pittsburg Steamship Co., Cleveland, O.
Str	Corona	27	13	64x16	1892	Wm. A. Osborne, Mgr., Duluth, Minn.

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AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Sch	Corry, Mike	380	361	153x29	1874	Chas. W. Kotcher, Detroit, Mich.
Sty	Corsair	36	29	58x10	1887	Philip Mago, Tonawanda, N. Y.
Sir	†Corsica	2964	1786	299x40	1888	Pittsburg Steamship Co., Cleveland, O.
Sir	†Cort, Henry	2284	1571	320x42	1892	Pittsburg Steamship Co., Cleveland, O.
Sir	Costello, Dan.	27	13	47x14	1874	C. Schulthies, Milwaukee, Wis.
Sir	†Cotton, Nellie	37	20	63x14	1867	Jos. Gauthier, Baraga, Mich.
Sir	Covell, Mark B.	261	192	130x26	1888	John Smith, Manistee, Mich.
Sch	Cowles, Henry	94	89	79x23	1881	J. P. Cummings, Chicago, Ill.
Sch	†Cowie, John B.	4731	3911	420x50	1902	U. S. T. Co., Williamson Bldg., Cleveland.
Sch	Coyne, Emma L.	497	472	154x33	1867	Capt. Richard Burns, Detroit, Mich.
Sir	†Craig, Geo. L.	3762	3130	360x50	1903	Thos. Adams, Detroit, Mich.
Sir	Craig, John	2044	1596	275x41	1888	J. C. Gilchrist, Cleveland, O.
Sir	Crane, Thomas	2219	1855	305x43	1893	Edw. Smith, Mngr. Buffalo, N. Y.
Sir	Crane, Frank R.	16	8	47x12	1878	Chic. & Gt. Lakes Dredg. & Dock Co., Chicago.
Tug	Crawford	36	18	60x16	1880	Great Lakes Towing Co., Cleveland, O.
Sch	Crawford, Charlie	298	283	144x29	1873	F. J. Haynes, Port Huron, Mich.
Sip	Crazy Boy	17	16	46x14	1889	Thos. Russell, Alexandria Bay, N. Y.
Sir	†Crerar, John	1550	955	241x41	1903	Gt. Lakes & St. Lawrence Trans. Co., A. B. Wolvin, Mngr., Duluth, Minn.
Sir	Crescent	71	50	77x16	1890	H. J. Webb, Cassopolis, Mich.
Sir	†Crescent City	4213	3675	406x48	1897	Pittsburg Steamship Co., Cleveland, O.
Sir	Cresco	62	36	75x17	1892	John W. Hatch, Ogdensburg, N. Y.
Sir	Cresswell	33	15	56x15	1882	Thos. B. Cresswell, Saginaw, Mich.
Sch	Crete	2040	1920	288x44	1897	W. C. Richardson, Cleveland, O.
Tug	Crosby	35	17	66x15	1899	John Shea, Duluth, Minn.
Tug	Crosby, E. G.	84	42	89x18	1892	Great Lakes Towing Co., Cleveland, O.
Sir	Cross, Belle P.	427	305	135x27	1870	J. H. Clow, Duluth, Minn. Rebuilt 1902. Wrecked 1903.
Sty	Crossman, C. W.	18	12	55x10	1891	E. W. Visger, Alexandria Bay, N. Y.
Sch	Crothwaite, Wm.	871	233	150x30	1866	Shannon & Garey, Saginaw, Mich.
Sch	Crothwaite, W. S.	683	630	197x34	1873	J. C. Gilchrist, Cleveland, O.
Sir	Crouse, J. S.	82	72	89x16	1898	R. C. Brittain, Saugatuck, Mich.
Sir	Croze, Jas. W.	23	11	45x12	1892	Joseph Croze, Houghton, Mich.

AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Sch	Dashing Wave	269	255	133x25	1862	J. C. Miller, Marine City, Mich.
Str	Davidson, A. D.	1640	987	241x41	1903	Gt. Lakes & St. Lawrence Trans. Co., A. B. Wolvin, Mngr., Duluth, Minn.
Str	Davidson, Thomas..	2226	1714	285x41	1888	Henry J. Pauly, Milwaukee, Wis.
Tug	Davis, L. D.	17	11	47x12	1888	J. E. Mahoning, Erie, Pa. Abandoned.
Sch	Davis, Lyman M.	195	185	123x27	1873	Thos. Munroe, Muskegon, Mich.
Tug	Davis, Townsend ..	67	33	70x19	1890	Great Lakes Towing Co., Cleveland, O.
Tug	Davitt, Michael	24	12	52x13	1885	Great Lakes Towing Co., Cleveland, O.
Sch	Dawn	26	24	60x14	1888	Robt. T. Kirwin, Milwaukee, Wis. Lost.
Str	Dawn	27	18	75x10	1901	J. S. Newberry, Detroit, Mich.
Bge	Dawn	30	30	65x14	1901	Wm. Slate, Alexandria Bay, N. Y.
Tug	Day, Erastus	69	34	70x19	1893	Great Lakes Towing Co., Cleveland, O.
Sch	Day, Eliza	139	132	97x25	1869	Chas. S. Carlson, Racine, Wis.
Sch	Dayton	87	83	98x21	1860	L. C. Ludwig, Benton Harbor, Mich.
Sch	Dayton	462	439	184x30	1871	M. P. Lester, Marine City, Mich.
Str	Dean	11	8	50x 9	1896	H. G. Chandler, Ogdensburg, N. Y.
Gyt	Dee Dee	14	9	50x10	1903	Thos. Farmer, Detroit, Mich.
Sir	Deer	47	24	46x17	1892	W. C. Penoyer, Bay City, Mich.
Sir	Defender	87	59	85x18	1895	Lake Champlain Trans. Co., Whitehall, N. Y.
Sch	Deland	136	109	94x17	1887	Thos. J. Smith, Whitehall, N. Y.
Sch	Delaware	546	519	173x30	1868	O. W. Blodgett, Bay City, Mich.
Sch	Delaware	1731	1526	252x36	1878	E. & W. T. Co., Anchor Line, Buffalo, N. Y.
Str	Delaware	5	5	38x 7	1890	Jacob Boser, Chicago, Ill.
Tug	Delaware	19	13	39x11	1903	Jas. J. Pendergast, Buffalo, N. Y.
Sch	Della	8	8	35x10	1890	Henry Root, Cheboygan, Mich. Abandoned.
Tug	Delta	47	23	64x18	1883	Great Lakes Towing Co., Cleveland, O.
Sch	Delta	269	266	134x28	1890	E. Hines Lumber Co., Chicago, Ill.
Sir	Denessen, Nettie ..	33	22	75x13	1884	Wm. Denessen, Green Bay, Wis.
Tug	Denessen, John	39	15	75x15	1893	Theo. J. Denessen, Green Bay, Wis.
Str	Denis Brothers	45	22	63x13	1881	Jos. H. Berry, Grosse Pointe, Mich.
Str	Denver	33	31	62x16	1887	W. H. Rees, Clayton, N. Y. Rebuilt 1902.
Sch	Denver	1295	1028	232x37	1890	F. W. Smith, Mngr. Milwaukee, Wis.
Str	Diamond	456	355	149x30	1892	Kelley Island Lime & Trans. Co., Cleveland, O.

Str Diamond Coast

Str	Desmond, Cornelius	32	22	60x14	1899	Simon Schacht, Erie, Pa.
Tug	Desmond, Jennie A.	14	7	46x10	1887	Cornelius W. Desmond, Buffalo, N. Y.
Tug	Desmond, John	44	30	69x16	1900	Cornelius W. Desmond, Buffalo, N. Y.
Tug	Desmond, Tim	31	21	59x15	1898	Simon Schacht, Erie, Pa.
Sty	Despatch	11	6	84x9	1890	Chas. H. McCutcheon, Buffalo, N. Y.
Str	Devereux, J. H.	1618	1312	243x37	1885	W. C. Richardson, Cleveland, O.
Tug	Devney, Jas. P.	27	17	64x14	1890	Henry Leidheiser, Vermillion, O.
Tug	Devney, Jas. P.	57	17	64x14	1890	Werner Leidheiser, Brownhelm, Ohio.
Str	Dewar, John D.	52	41	72x15	1885	H. F. Robertson, Frankfort, Mich.
Ltr	Dewar	298	.....	.....	1854	Howard Trans. Co., Chicago, Ill. Formerly Sch. Empire State.
Scw	Dewey	42	42	.....	1897	W. A. Whitney, W. Superior, Wis.
Str	Dewey	13	6	.....	1899	W. N. Grant, Fair Haven, N. Y.
Sch	Dewey, Admiral	8	8	32x10	1898	A. J. Kensler, Detroit, Mich.
Str	Dewey, Jos. B.	22	15	64x16	1901	J. B. Dewey, Monroe, Mich.
Sch	Dewolf, Delos	307	292	138x25	1856	John J. Boland, Buffalo, N. Y.
Tug	Dexter	36	18	58x14	1866	Geo. H. Breyman, Toledo, O.
Str	Diamond	16	10	49x11	1902	C. Vandenberg, Muskegon, Mich.
Tug	Dickinson, Wm.	78	49	78x19	1893	Great Lakes Towing Co., Cleveland, O.
Sch	Dimmers, Geo. W.	126	88	93x17	1890	Thos. M. Ryan, Buffalo, N. Y.
Tug	Dimick, Lorenzo	42	21	65x16	1883	Great Lakes Towing Co., Cleveland, O.
Sch	Dimmers, C. H.	133	105	96x17	1882	W. M. Cole, Buffalo, N. Y.
Tug	Dittly	28	9	.....	1902	Joseph Day, Buffalo, N. Y.
Slp	Dixie	12	12	50x13	1898	Wm. J. Gethys, Champlain, N. Y.
Sty	Dixie	14	7	40x10	1889	W. D. Smith, Detroit, Mich.
Sch	Dixie	10	10	35x11	1898	Geo. Pomeroy, St. Ignace, Mich.
Scy	Dixon, David	25	24	41x15	1892	Geo. H. Paulus, Detroit, Mich.
Tug	Dixon, Hiram R.	829	255	147x21	1883	U. S. & Dom. Trans. Co., Booth Line, Chicago Burned.
Tug	Dixon, S. O.	29	14	52x15	1892	E. Gillen, Racine, Wis.
Sch	Dobbie, Thomas	322	306	137x25	1867	John W. Greenwood, Buffalo, N. Y.
Sch	Dobbins, D. P.	447	425	162x31	1863	Argo S. S. Co. E. L. Fisher, Mngr, Cleveland, O.
Tug	Doctor	20	15	56x13	1901	Simon Schacht, Erie, Pa.
Slp	Dolphin	5	5	32x9	1896	James Barr, Milwaukee, Wis.
Slp	Dolphin	26	26	60x15	1866	S. Deano, Clayton, N. Y.
Str	Don	11	8	44x12	1901	Keystone Fish Co., Erie, Pa.
Sch	Donaldson	420	399	155x31	1867	J. U. Karr, Cleveland, O.

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CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Sch	Corry, Mike	380	361	153x29	1874	Chas. W. Kotcher, Detroit, Mich.
Str	Corsair	36	29	58x10	1887	Philip Mago, Tonawanda, N. Y.
Str	†Corsica	2364	1786	299x40	1888	Pittsburg Steamship Co., Cleveland, O.
Str	†Cort, Henry	2294	1571	320x42	1892	Pittsburg Steamship Co., Cleveland, O.
Str	Costello, Dan.	27	13	47x14	1874	C. Schulhies, Milwaukee, Wis.
Str	†Cotton, Nellie	37	20	63x14	1867	Jos. Gauthier, Baraga, Mich.
Str	Covell, Mark B.	261	192	130x26	1881	John Smith, Manistee, Mich.
Sch	Cowles, Henry	94	89	79x23	1888	J. P. Cummings, Chicago, Ill.
Str	†Cowle, John B.	4781	3911	420x50	1902	U. S. T. Co., Williamson Bldg., Cleveland.
Sch	Coyne, Emma L.	497	472	154x33	1867	Capt. Richard Burns, Detroit, Mich.
Str	†Craig, Geo. L.	3762	3130	360x50	1903	Thos. Adams, Detroit, Mich.
Str	Craig, John	2044	1596	275x41	1888	J. C. Gilchrist, Cleveland, O.
Str	Crane, Thomas	2219	1855	305x43	1893	Edw. Smith, Mngr, Buffalo, N. Y.
Str	Crane, Frank R.	16	8	47x12	1878	Chic. & Gt. Lakes Dredg. & Dock Co., Chicago.
Tug	Crawford	36	18	60x16	1880	Great Lakes Towing Co., Cleveland, O.
Sch	Crawford, Charlie	298	283	144x29	1878	F. J. Haynes, Port Huron, Mich.
Slp	Crazy Boy	17	16	46x14	1889	Thos. Russell, Alexandria Bay, N. Y.
Str	†Crerar, John	1550	955	241x41	1903	Gt. Lakes & St. Lawrence Trans. Co., A. B. Wolvin, Mngr., Duluth, Minn.
Str	Crescent	71	50	77x16	1890	H. J. Webb, Cassopolis, Mich.
Str	†Crescent City	4213	3675	406x48	1897	Pittsburg Steamship Co., Cleveland, O.
Str	Cresco	62	36	75x17	1882	John W. Hatch, Ogdensburg, N. Y.
Str	Cresswell	33	15	56x15	1882	Thos. B. Cresswell, Saginaw, Mich.
Sch	Crete	2040	1920	286x44	1897	W. C. Richardson, Cleveland, O.
Tug	Crosby	35	17	66x15	1889	John Shea, Duluth, Minn.
Tug	Crosby, E. G.	84	42	89x18	1892	Great Lakes Towing Co., Cleveland, O.
Str	Cross, Belle P.	427	305	135x27	1870	J. H. Clow, Duluth, Minn. Rebuilt 1902. Wrecked 1903.
Str	Crossman, C. W.	18	12	55x10	1891	E. W. Visger, Alexandria Bay, N. Y.
Sch	Crosthwaite, Wm.	871	353	150x30	1866	Shannon & Garey, Saginaw, Mich.
Sch	Crosthwaite, W. S.	683	630	197x34	1873	J. C. Gilchrist, Cleveland, O.
Str	Crouse, J. S.	82	72	89x16	1898	R. C. Brittain, Saugatuck, Mich.
Str	Croze, Jas. W.	23	11	45x12	1882	Joseph Croze, Houghton, Mich.

Sen	Cruiser	19	14	1070	1071	1072
	Cryslar, Walter ...	48	22	68x12	1882	Geo. Jepson, East Jordan, Mich.
Str	Crystal	551	405	177x28	1875	Jos. H. Rebstock, Buffalo, N. Y.
Str	†Cuba	1526	1359	231x35	1872	Red Star Line, Buffalo, N. Y.
Bge	Cuba Libre	195	195	96x25	1895	H. T. Dunbar, Buffalo, N. Y.
Sch	Culbert, Belle W. .	31	26	52x16	1898	P. R. Eaglesfield, Grand Rapids, Mich.
Ch	Cull, Geo. D.	95	17		1888	Frank Pechet, Whitehall, N. Y.
Str	Cumberland	1601	1280	251x38	1881	J. C. Gilchrist, Cleveland, O.
Str	Cummings, Lou A. .	62	41	83x16	1883	H. J. Webb, Cassopolis, Mich.
Str	Curlew	67	33	77x20	1867	Geo. Hall Coal Co., Ogdensburg, N. Y.
Str	†Curry, S. S.	9260	2608	360x45	1893	H. A. Hawgood, Cleveland, O.
Str	Currie, R. W.	36	18	60x14	1882	A. Booth Packing Co., Chicago, Ill.
Str	Curtis, C. F.	691	522	196x32	1882	Tonawanda I. & S. Co., N. Tonawanda, N. Y.
Sch	Cuyler, Glen	60	53	84x20	1869	Ben Jacobson, Green Bay, Wis.
Str	Cygnat	12	10	42x12	1873	C. Robinson, Cheboygan, Mich.
Str	†Cynthia	103	70	120x17	1895	M. B. Mills, Detroit, Mich.

D

Bge	D1	152	152	76x34	1899	Robt. Smith, Duluth, Minn.
Bge	D33	457	457	118x33	1901	Robt. Smith, Duluth, Minn.
Bge	D34	457	457	118x33	1901	Robt. Smith, Duluth, Minn.
Scw	D35	607	607	137x36	1903	Robt. Smith, Duluth, Minn.
Scw	D36	607	607	137x36	1903	Robt. Smith, Duluth, Minn.
Str	Daisy	25	19	44x14	1881	Jacob Beller, Detroit, Mich.
Str	Daisy	21	10	51x13	1884	F. W. Herzog, Minneapolis, Minn.
Str	Daisy	18	12	57x13	1896	Ranney Fish Co., Cleveland, O.
Sch	Dall, Margaret	149	138	115x25	1867	John Caesar, Chicago, Ill.
Str	†Dalton, H. G.	1615	920	241x41	1903	Gt. Lakes & St. Lawrence Trans. Co., A. B.
						Wolvin, Mngr., Duluth, Minn.
Tug	Danforth, Grace ...	65	32	72x17	1888	Great Lakes Towing Co., Cleveland, O.
Tug	Dark	11	7	35x11	1898	Buffalo Dredging Co., Buffalo, N. Y.
Sch	Darley, Kate	388	369	150x31	1862	Richard Burns, Detroit, Mich.
Str	Dash, John A.	13	6	52x12	1886	John A. Dash, Erie, Pa.

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CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Sch	Dashing Wave	269	255	133x25	1862	J. C. Miller, Marine City, Mich.
Str	†Davidson, A. D.	1640	987	241x41	1903	Gt. Lakes & St. Lawrence Trans. Co., A. B.
Str	Davidson, Thomas	2226	1714	285x41	1888	Henry J. Pauly, Milwaukee, Wis.
Tug	Davis, L. D.	17	11	47x12	1888	I. E. Mahoning, Erie, Pa. Abandoned.
Sch	Davis, Lyman M.	195	185	123x27	1873	Thos. Munroe, Muskegon, Mich.
Tug	Davis, Townsend ..	67	33	70x19	1890	Great Lakes Towing Co., Cleveland, O.
Tug	Davitt, Michael	24	12	52x13	1885	Great Lakes Towing Co., Cleveland, O.
Sch	Dawn	26	24	60x14	1888	Robt. T. Kirwin, Milwaukee, Wis. Lost.
Str	Dawn	27	18	75x10	1901	J. S. Newberry, Detroit, Mich.
Bge	Dawn	30	30	65x14	1901	Wm. Slate, Alexandria Bay, N. Y.
Tug	Day, Erastus	69	34	70x19	1893	Great Lakes Towing Co., Cleveland, O.
Sch	Day, Eliza	139	132	97x25	1869	Chas. S. Carlson, Racine, Wis.
Sch	Day Spring	87	83	98x21	1860	L. C. Ludwig, Benton Harbor, Mich.
Sch	Dayton	462	439	184x30	1871	M. P. Lester, Marine City, Mich.
Str	Dean	11	8	50x 9	1896	H. G. Chandler, Ogdensburg, N. Y.
Grt	Dee Dee	14	9	50x10	1903	Thos. Farmer, Detroit, Mich.
Str	Deer	47	24	46x17	1892	W. C. Penoyer, Bay City, Mich.
Str	†Defender	87	59	85x18	1895	Lake Champlain Trans. Co., Whitehall, N. Y.
Sch	Deland	196	109	94x17	1887	Thos. J. Smith, Whitehall, N. Y.
Sch	Delaware	546	519	173x30	1868	O. W. Blodgett, Bay City, Mich.
Str	Delaware	1731	1526	252x36	1878	E. & W. T. Co., Anchor Line, Buffalo, N. Y.
Str	Delaware	5	5	38x 7	1890	Jacob Boser, Chicago, Ill.
Tug	Delaware	19	13	39x11	1903	Jas. J. Pendergast, Buffalo, N. Y.
Sch	Della	8	8	35x10	1890	Henry Root, Cheboygan, Mich. Abandoned.
Tug	Delta	47	23	64x18	1883	Great Lakes Towing Co., Cleveland, O.
Sch	Delta	269	266	134x28	1890	E. Hines Lumber Co., Chicago, Ill.
Str	Denessen, Nettie ..	33	22	75x13	1884	Wm. Denessen, Green Bay, Wis.
Tug	Denessen, John	39	15	75x15	1883	Theo. J. Denessen, Green Bay, Wis.
Str	Denis Brothers	45	22	63x13	1881	Jos. H. Berry, Grosse Pointe, Mich.
Sch	Denver	39	31	62x16	1887	W. H. Rees, Clayton, N. Y. Rebuilt 1902.
Str	Denver	1205	1028	222x37	1890	F. W. Smith, Mng'r, Milwaukee, Wis.
Str	Denmond	486	385	149x30	1892	Kelley Island Lime & Trans. Co., Cleveland, O.

Tug	Desmond, John	44	30	69x10	1900	Cornelius W. Desmond, Buffalo, N. Y.
Tug	Desmond, Tim	31	21	59x15	1898	Simon Schacht, Erie, Pa.
Sty	Despatch	11	6	84x9	1890	Chas. H. McCutcheon, Buffalo, N. Y.
Str	Devereux, J. H.	1618	1312	243x87	1885	W. C. Richardson, Cleveland, O.
Tug	Devney, Jas. P.	27	17	64x14	1890	Henry Leidheiser, Vermillion, O.
Tug	Devney, Jas. P.	27	17	64x14	1890	Werner Leidheiser, Brownhelm, Ohio.
Str	Dewar, John D.	52	41	72x15	1885	H. F. Robertson, Frankfort, Mich.
Ltr	Dewey	298	.....	.....	1854	Howard Trans. Co., Chicago, Ill. Formerly Sch. Empire State.
Scw	Dewey	42	42	.....	1897	W. A. Whitney, W. Superior, Wis.
Str	Dewey	13	6	.....	1899	W. N. Grant, Fair Haven, N. Y.
Sch	Dewey, Admiral	8	8	32x10	1898	A. J. Kensler, Detroit, Mich.
Str	Dewey, Jos. B.	22	15	64x16	1901	J. B. Dewey, Monroe, Mich.
Sch	Dewolf, Delos	307	292	138x25	1856	John J. Boland, Buffalo, N. Y.
Tug	Dexter	36	18	58x14	1866	Geo. H. Breyman, Toledo, O.
Str	Diamond	16	10	49x11	1902	C. Vandenbergh, Mustegon, Mich.
Tug	Dickinson, Wm.	78	49	78x19	1893	Great Lakes Towing Co., Cleveland, O.
Sch	Dimmers, Geo. W.	126	88	93x17	1890	Thos. M. Ryan, Buffalo, N. Y.
Tug	Dimick, Lorenzo	42	21	65x16	1883	Great Lakes Towing Co., Cleveland, O.
Sch	Dimmers, C. H.	133	105	96x17	1882	W. M. Cole, Buffalo, N. Y.
Tug	Dittly	28	9	.....	1902	Joseph Day, Buffalo, N. Y.
Slp	Dixie	12	12	50x13	1898	Wm. J. Gelys, Champlain, N. Y.
Sty	Dixie	14	7	40x10	1889	W. D. Smith, Detroit, Mich. Abandoned.
Sch	Dixie	10	10	35x11	1898	Geo. Pomeroy, St. Ignace, Mich.
Scy	Dixon, David	25	24	41x15	1892	Geo. H. Paulus, Detroit, Mich.
Tug	Dixon, Hiram R.	329	255	147x21	1883	U. S. & Dom. Trans. Co., Booth Line, Chicago Burned.
Tug	Dixon, S. O.	29	14	52x15	1892	E. Gillen, Racine, Wis.
Sch	Dobbie, Thomas	322	306	137x25	1867	John W. Greenwood, Buffalo, N. Y.
Sch	Dobbins, D. P.	447	425	162x31	1863	Argo S. Co., E. L. Fisher, Mng'r, Cleveland, O.
Tug	Doctor	20	15	56x18	1901	Simon Schacht, Erie, Pa.
Gly	Dolphin	5	5	32x9	1896	James Barr, Milwaukee, Wis.
Gly	Dolphin	26	26	60x15	1866	S. Deano, Clayton, N. Y. Abandoned.
Gly	Don	11	8	44x12	1901	Keystone Fish Co., Erie, Pa.
Sch	Donaldson	420	399	155x31	1867	J. U. Karr, Cleveland, O.

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CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Tug	Donaldson, Geo. S.	13	6	44x13	1883	M. Moffett, Buffalo, N. Y.
Str	Donaldson, J. P.	521	425	185x30	1880	W. H. Sharp, Bay City, Mich.
Tug	Donnelly, Wm. T.	54	37	62x17	1903	Jas. W. Baker, Buffalo, N. Y.
Str	+Doozie	47	27	80x13	1901	Chicago, Ill.
Str	Dorner, Grace	65	48	70x17	1868	Pt. Huron & S. Ferry Co., Port Huron, Mich.
Slp	Dora	10	10	33x10	1889	E. D. Patterson, Alexandria Bay, N. Y.
Str	+Dornbos, H. J.	44	30	63x15	1901	Wm. Ver Duin, Grand Haven, Mich.
Str	Dorothy	90	62	72x16	1901	Geo. Moon, Buffalo, N. Y.
Str	Douglas	280	123	120x22	1882	Oscoda & Cleveland Transp. Co., C. W. Thompson Mngtr., St. Clair, Mich.
Tug	Douglass	97	67	82x18	1888	John Desana, Jr., Wyandotte, Mich.
Slp	Douglass, E.	107	107	112x24	1896	La Crosse, Wis.
Tug	Dow	11	8	44x12	1901	Geo. Hamberger, Erie, Pa.
Str	Dow, Neal H.	11	8	39x11	1898	Geo. Owen, Mngtr., Ashtabula, O.
Tug	Dowling Tom	36	18	67x17	1873	John Place, Duluth, Minn. Rebuilt 1887.
Str	Downey, Rob.	25	12	52x14	1893	E. J. Hingston, Buffalo, N. Y.
Tug	Downs, Kitie	34	16	65x16	1890	Great Lakes Towing Co., Cleveland, O.
Tug	Dragon	28	14	62x14	1866	Chas. E. Williams, Buffalo, N. Y.
Tug	Dreadnaught	31	15	69x15	1881	Great Lakes Towing Co., Cleveland, O.
Sch	Dresden, Josephine	84	80	95x21	1852	Capt. Chas. Anderson, Racine, Wis.
Tug	Drews, Fred	28	10	58x13	1900	Chic. & Gt. Lakes Dredg. & Dock Co., Chicago.
Str	Driscoll, Fred	30	17	64x14	1902	H. B. Kishman, Vermillion, O.
Sch	DuBois	136	107	95x17	1883	Wm. J. Warwick, Buffalo, N. Y.
Str	Duchess	30	24	68x13	1887	C. F. Mischler, Cleveland, O.
Tug	Dudley, Joe D.	37	18	65x15	1865	D. E. Stevens, Duluth, Minn.
Str	Duluth	247	163	98x29	1890	Ewing Bros., Escanaba, Mich.
Str	Duluth	4623	3785	.....	1903	Western Transit Co., Buffalo, N. Y.
Tug	+Dunbar, Chas. F.	136	92	86x23	1898	Daly & Hannon, Ogdensburg, N. Y.
Tug	Dunbar, Robt	11	5	42x11	1867	H. N. Loud, Oscoda, Mich.
Tug	Duncan City	179	89	104x18	1883	Geo. W. Pankrantz, Sturgeon Bay, Wis.
Str	Duncan, John	1267	997	225x37	1891	H. J. Pauly, Milwaukee, Wis.
Str	Duncan, Maggie	535	377	164x31	1890	Runnels & Sinclair, Port Huron, Mich.
Sch	Dunford, Fred. J.	273	259	127x30	1873	Pittsburg Coal Co., Cleveland, O.

Str tDuro	11	7	40x13	1894 F. E. Smith, Cleveland, O.
Str Dussault, D.	55	89	76x18	1886 Adam R. Kuhlman, Toledo, O.
Sch Duvall, J.	131	125	103x24	1874 Chas. H. Frame, Harbor Beach, Mich.
Sch Dykes, Mary E.	44	44	55x17	1897 Mary E. Dykes, Chicago, Ill.
E				
Sch E L G.	13	12	40x12	1890 Now Cruiser.
Str tEads, Jas. B.	3746	2970	400x42	1894 Pittsburg Steamship Co., Cleveland, O.
Str Eagle	182	131	123x25	1873 David M. Wilson, Montague, Mich.
Tug Eagle	16	11	47x14	1903 Keystone Fish Co., Erie, Pa.
Sch Early, Margaret. .	11	10	38x11	1879 Jos. Link, St. James, Mich. Abandoned.
Sch Earnest, J. R.	50	27	76x14	1882 Northwestern El. & Mill Co., Toledo, O.
Tug Earnshaw, F. O. .	33	16	54x14	1886 J. E. Lindquist, Chicago, Ill.
Sch Earny	35	35	53x18	1882 Ralph E. Wirt, Green Bay, Wis.
Str tEastern States . .	3077	1566	366x45	1902 D. & B. Stbt Co., W. C. McMillan, Mgr., Detroit
Str tEastland	1961	1218	265x38	1903 Michigan Steamship Co., So. Haven, Mich.
Str tEaston	460	313	154x30	1896 White Line Trans. Co., Duluth, Minn.
Str Easton, R. P.	19	13	46x13	1896 Thos. Munroe, Muskegon, Mich.
Sch Ebenezer	137	150	103x24	1847 Garry Geiksen, Charlevoix, Mich.
Sch Ebenezer	39	37	57x15	1890 F. Hogensen, Ephraim, Wis.
Sch Eclipse	30	26	54x17	1888 J. M. Fitzpatrick, Escanaba, Mich.
Str Eddy, Charles A. .	2075	1552	281x40	1889 J. C. Gilchrist, Cleveland, O.
Str Eddy, John F.	1678	1252	259x37	1886 Tonawanda I. & S. Co., North Tonawanda, N. Y.
Tug Eddy, Lulu	19	9	51x14	1888 Ben Boutelle, Bay City, Mich.
Str tEddy, Selwyn . . .	2846	2164	943x42	1893 Eddy-Shaw Transp. Co., Bay City, Mich.
Str tEdenborn, Wm. . .	5910	4531	478x52	1900 Pittsburg Steamship Co., Cleveland, O.
Sky Edith	12	6	60x 8	1900 W. N. Landon, Syracuse, N. Y.
Boe Edna	53	40	66x18	1866 John Cutthbertson, Algonac, Mich.
Tug tEdna G.	154	67	92x28	1896 F. E. House, Duluth, Minn.
.... Edna K.	17	12	47x12	.... Wm. F. Kalbe, Youngstown, N. Y.
tEdson, C. R.	40	27	63x15	1899 W. H. Crangle, 61-67 River st., Cleveland, O.
tEdward K.	42	29	73x16	1899 Alex. Cran, St. Joseph, Mich.
Sch Edwards, J. R.	435	413	175x30	1883 H. McMorran, Port Huron, Mich.
tEdwards, Wm.	1272	973	226x35	1879 W. C. Richardson, Mgr., Cleveland, O.

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Class.	Vessel.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	Name and Address of Owner or Manager.
Tug	Effie B.	51	11	72x16	1896	Penna. Fishing Co., Erie, Pa.
Tug	Effie L.	41	28	63x17	1875	Robt. Smith, Duluth, Minn. Rebuilt 1900.
Str	Egan, Wiley M.	1677	1980	252x39	1887	Est. of W. M. Egan, Arthur C. Helm, Mngr., Chicago.
Sch	Eggers, John	25	23	58x14	1887	J. Eggers, Milwaukee, Wis.
Sch	Eleanor	421	400	161x32	1885	Tonawanda Barge Line, Chas. Weston, Mngr., N. Tonawanda, N. Y.
Str	Eleanor	17	11	62x11	1897	Leonard A. Robinson, Montague, Mich. Burned
Bge	Eleanora	225	209	154x34	1896	Rochester & Pitts. C. Co., Buffalo, N. Y. Out of commission.
Str	Elfrida	146	99	123x18	1900	Wm. S. Webb, Shelburne, Vt.
Sch	Elgin	330	309	139x25	1874	James Keenan, Chicago, Ill.
Str	Elgondon	103	70	105x16	1903	Spencer Kellogg, Buffalo, N. Y. Wis.
Sch	Elida	192	182	111x24	1863	Jacob Leszczynski, Milwaukee, Wis.
Str	Eliza	15	8	47x13	1892	John Pasque, Bayfield, Wis.
Str	Elizabeth G.	24	18	56x12	1892	Delos H. Smith, Port Washington, Wis.
Sch	Elizabeth	25	24	51x15	1887	James B. Jensen, Ephraim, Wis. Lost.
Tug	Elk	57	28	81x17	1892	J. L. Crosthwaite, Buffalo, N. Y.
Bge	Elk	9	9	41x13	1899	Wm. Slate, Alexandria Bay, N. Y.
Str	Ella	25	22	56x12	1898	John T. Byrne, Grand Rapids, Mich.
Str	Ella G.	115	109	108x27	1882	Lake Sand & Gravel Co., Toledo, O.
Str	Ella H.	26	20	52x10	1884	Francis Lanzae, Niagara Falls, N. Y.
Str	Ellen	349	194	121x30	1893	James T. Bannon, Milwaukee, Wis.
Sch	Ellen	37	32	52x16	1896	N. E. Albert, Saginaw, Mich.
Bge	Ellen	73	73	84x16	1898	Geo. C. Boldt, Alexandria Bay, N. Y.
Str	Ellen Gertrude	14	10	52x13	1896	Fred'k Lincoln, Rogers City, Mich.
Tug	Elliot, Clara A.	21	18	50x12	1882	D. J. Martin, St. James, Mich.
F. B.	Elliot, James R.	210	114	110x25	1902	Fire Dept., Detroit, Mich.
Tug	Ellis, O. A.	89	81	73x16	1886	B. Mulvaney, Oconto, Wis. Abandoned.
Str	Ellwood	77	52	.....	1903	....., Chicago, Ill.
Str	Ellwood, Isaac L.	5904	4526	478x52	1900	Pittsburg Steamship Co., Cleveland, O.
Tug	Elma	29	20	63x14	1897	Daniel Elliott, Erie, Pa.

Str	Eloise	40	30	67x13	1881	John L. Mock, Douglass, N. Y.
Str	Elphicke, C. W.	.....2046	1764	273x42	1889	J. C. Gilchrist, Cleveland, O.
Tug	Elphicke, C. W.	... 43	26	63x16	1889	Hausier Bros., S. Chicago, Ill.	
Str	†Elphicke, Mary C.	...4998	3967	430x50	1901	C. W. Elphicke, Chicago, Ill.	
Sch	Elsa	.....11	10	.....	1903	— Erie Pa.
Str	Elsa M.	.....14	7	41x11	1898	Carl G. Richter, Detroit Harbor, Wis.
Str	Elsie Nell	.....41	28	62x16	1901	Wm. Smith & Co., Waukegan, Ill.
Str	Elva	.....81	61	70x18	1889	Arnold Trans. Co., Mackinac Island, Mich.
Sch	Elva	.....69	65	86x19	1862	Emanuel Hallgren, Marinette, Wis.
Tug	E. M. B. A.	.....44	21	71x17	1891	C. E. Ainsworth, Sault Ste. Marie, Mich.
Str	Embury	.....373	279	153x30	1869	W. L. Martin, Cheboygan, Mich.
Str	Emerald	.....348	305	140x30	1871	Anthony T. May, 397 Champlain st., Detroit.
Tug	Emerson, Geo.	... 35	17	61x15	1884	Lake Superior Dredging Co., Duluth, Minn.	
Str	Emery, Temple	... 155	77	83x20	1886	H. Mann, Milwaukee, Wis.	
Sch	Emily & Eliza.	... 63	60	78x21	1874	Capt. M. Coyne, 313 Park ave., Milwaukee, Wis.	
Gas	Emma	.....13	9	46x12	1902	L. E. Bahle, Suttons Bay, Mich.
Sch	Emma	.....57	54	75x16	1882	F. Phelps, Chaumont, N. Y. Abandoned.
Slp	Emma D.	.....20	19	46x16	1890	W. Patterson, Alexandria Bay, N. Y.
Tug	Emmet, Robert.	... 32	18	65x16	1863	Rittenhouse & Embree, Chicago, Ill.	
Str	†Empire City	...4118	3268	406x48	1897	Pittsburg Steamship Co., Cleveland, O.	
Str	Empire State	.....380	270	157x26	1863	Thousand Isld Strmht. Co., Cape Vincent, N. Y.
Str	Empire State	.....1116	962	212x32	1862	John McCoy, Milwaukee, Wis.
Str	Endress, C. W.	... 73	49	86x20	1898	C. E. Ainsworth, Sault Ste. Marie, Mich.	
Tug	Engel, Fred	.....21	14	50x13	1875	Burned. Rebuilt 1904, and name changed to R. W. Arthur.
Str	Engel, Wm.	.....47	32	63x17	1901	Thos. Mader, Kenosha, Wis.
Tug	Enos, Jessie	... 23	16	54x14	1888	M. E. Grow, Grand River, O.	
Tug	Enterprise	.....21	10	50x14	1888	Jas. H. Normand, Cleveland, O.
Str	†Ericsson, John.	...3200	2378	390x48	1896	Pittsburg Steamship Co., Cleveland, O.	
Str	Erie	.....21	10	56x14	1888	Bense Fish Co., Port Clinton, O.
Tug	Erie	.....21	16	57x14	1902	Simon Schacht, Erie, Pa.
Str	Erie	.....43	29	60x16	1897	Great Lakes Towing Co., Cleveland, O.
Str	Erna	.....14	7	51x13	1894	Geo. D. Nau, Green Bay, Wis.
Tug	Erwin16	8	52x13	1886	Simon Schacht, Erie, Pa.	
†	B. Essen334	324	158x31	1892	Pickands, Mather & Co., Cleveland, O.	

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CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Tug	Esser, Mart H.....	34	28	57x14	1900	Henry Burg, Erie, Pa.
Tug	Estelle	34	17	69x13	1874	Napoleon Grignon, Duluth, Minn.
Str	Esther	15	10	98x10	1901	Ernst Knack, Milwaukee, Wis.
Sly	Ethel	14	13	41x14	1875	Eduard T. Affleck, Jr., Toledo, O.
Str	Ethel J.	21	10	59x13	1884	Henry F. Hanford, Marquette, Mich.
Str	Etruria	4653	3415	414x50	1902	Henry A. Hawgood, Cleveland, O.
Sch	Eva	16	15	45x14	1881	E. S. Stoddard, Bono, O.
Tug	Evans, J. C.....	79	24	82x17	1876	Great Lakes Towing Co., Cleveland, O.
Tug	Evans, J. J.....	14	7	45x12	1881	Alonzo J. Fox, Manistique, Mich.
Str	Evelyn	150	150	124x29	1883	Lake La Bordo, Oshkosh, Wis.
Sch	Ewen, Frank D....	882	898	202x37	1888	James Corrigan, Cleveland, O.
Str	EWing, H.....	62	42	70x16	1901	Emil Ewig, Port Washington, Wis.
Tug	Ewing, W. L.	43	21	71x14	1868	Great Lakes Towing Co., Cleveland, O.
Str	Excelsior	229	129	116x29	1876	D. B. I. & W. F. Co., Detroit, Mich.
Tug	Excelsior	73	36	72x19	1892	Great Lakes Towing Co., Cleveland, O.
Sch	Excelsior	92	64	104x18	1882	J. E. Lindquist, Chicago, Ill.
Sch	Exchange	27	26	52x15	1871	C. O'Hara, Sheboygan, Wis.
Sch	Exilda	56	53	72x20	1889	Robt. D. Peltier, Erin, Mich.
Sch	Exile	987	368	152x29	1867	Shannon & Garey, Saginaw, Mich.
F						
Str	Fabian	71	35	70x19	1894	Great Lakes Towing Co., Cleveland, O.
Str	†Fairbairn, Sir Wm.4219	3181	424x45	1896	Pittsburg Steamship Co., Cleveland, O.	
Str	Falcon	865	693	174x31	1881	Cleveland Cliffs Iron Co., Cleveland, O.
Str	†Falcon	82	60	90x16	1887	Franklin Sidney, Buffalo, N. Y.
Tug	Fanchon	13	6	46x12	1879	Union Towing & Wrecking Co., Duluth, Minn.
Sly	Fannie H.	15	12	51x 9	1875	Jas. McGregor, Sheboygan, Mich.
Str	Fanny H.	16	11	54x12	1890	U. S. Engineer Dept., Washington, D. C.
Tug	Faragut	14	7	44x12	1868	Frances Beaubien, Detroit, Mich.
Str	Farwell, Jesse H. .1200	997	212x85	1881	J. H. Farwell, Detroit, Mich.	
Str	Fashion	149	94	94x24	1881	Carl H. Wagner, Fon du Lac, Wis.
Str	Fashion	48	26	64x16	1889	Ida Brower, Ashland, Wis.

Str	Fashion	29	14	52x16	1893	C. B. Curtiss, Bay City, Mich.
Sch	Fassett, Theo. S.	548	521	186x31	1881	Tonawanda I. & S. Co., N. Tonawanda, N. Y.
Str	Faustin	256	166	122x24	1882	J. M. Shackett, Mng'r, Marine City, Mich.
Sch	Favorite	451	494	166x31	1863	Runnels & Sinclair, Port Huron, Mich.
Tug	Favorite	409	351	139x28	1864	Great Lakes Towing Co., Cleveland, O.
Tug	Favorite	9	6	47x11	1894	Franc Parsons, Vermillion, O.
Str	Favorite	31	16	53x16	1879	Great Lakes Towing Co., Cleveland, O.
Str	Fawn	24	16	60x10	1896	Edmund Lehmann, Appleton, Wis.
Str	Fay, Joseph S.	1220	1110	215x33	1871	M. A. Bradley, Cleveland, O.
Sch	Fearless	165	156	120x24	1867	H. Williamson, Racine, Wis.
Str	Fearless	28	17	59x14	1877	E. A. Sonneman, Sheboygan, Wis.
Sch	Fearless	101	77	90x17	1878	C. S. Metcalfe, Chicago, Ill.
Sch	Felicitous	216	205	117x26	1873	Ole L. Olson, Manitowoc, Wis.
Sch	Ferguson, David	223	212	130x26	1853	A. Trudo, Box 336, Bay City, Mich.
Tug	Ferris, Charley	54	27	69x17	1884	William D. Allen, Oswego, N. Y.
Tug	Ferry, Col.	17	9	42x12	1882	N. Campbell, Muskegon, Mich.
Sch	Ferry, Maj. N. H.	171	162	117x24	1867	Halvor Williamson, Racine, Wis.
Tug	Ferry, T. W.	27	17	52x13	1875	Jos. B. Benning, St. Joseph, Mich.
Tug	Field, O. M.	29	17	57x13	1882	J. M. Clow, Marinette, Wis.
Sch	Filer, D. L.	357	339	156x30	1871	Hines Lumber Co., Chicago, Ill.
Sch	Filer, Grace M.	237	225	128x27	1874	H. Michelson, Chicago, Ill.
Sch	Fillmore, Clarence J.	410	389	161x31	1889	W. E. Pierce, W. Bay City, Mich.
Sch	Fire Queen	20	15	.....	1882	Chicago Fire Dept., Chicago, Ill.
F. B.	Fischer	9	7	37x 9	1896	John J. Fristus, Buffalo, N. Y.
Tug	†Fischer, S. M.	628	427	139x31	1896	L. M. C. F. Trans. Co., Chicago, Ill.
Tug	Fisher, Geo. E.	25	18	64x16	1883	C. F. Hegmann, Huron, O.
Sch	Fisher, Hattie	80	76	87x22	1872	P. C. Gallagher, St. James, Mich.
Sch	Fisherman	18	9	54x12	1880	I. Lincoln, Alpena, Mich.
Tug	Fisk, James, Jr.	914	737	213x32	1870	Alvin Peter, Toledo, O. Rebuilt 1901.
Sch	Fiske, Edward	43	21	66x16	1883	Great Lakes Towing Co., Cleveland, O.
Tug	Fitch, F.	13	12	41x13	1891	Wm. E. Knight, Charlevoix, Mich.
Sch	†Fitch, Wm. F.	3929	2632	346x48	1902	Franklin T. Co., D. R. Hanna, Pres't., Cleveland.
Sch	Fitzgerald, R. P.	1681	1175	256x38	1887	Est. of W. M. Egan, Arthur C. Helm, Mng'r., Chicago.
Sch	Fleetwood	1687	1175	265x40	1887	Tonawanda I. & S. Co., N. Tonawanda, N. Y.
Sch	Fletcher, F. W.	495	314	161x32	1891	J. O. Nessen & Co., Manistee, Mich.

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Str	†Flagg, G. A.	3062	2128	318x42	1901	D. R. Hanna, Cleveland, O.
Gyt	Flint	11	7	46x8	1903	W. A. Pungs, Detroit, Mich.
Str	Flint, Oscar T.	823	700	218x37	1889	Comstock & Sinclair, Duluth, Minn.
Sch	Flint, Sam	499	474	167x34	1868	F. W. Gilchrist, Alpena, Mich.
Str	F. & P. M., No. 1.	769	625	181x30	1882	Barry Sbt. Line, Chicago, Ill.
Sch	Floe	87	59	99x16	1882	E. H. Brown, Chicago, Ill.
Str	Florence	7	5	36x7	1903	Michael Kriegbaum, Buffalo, N. Y.
Str	Florence	26	13	71x14	....	Edw. R. Sweet, Lake Harbor, Mich.
Str	Florence B.	24	20	50x11	1892	C. F. Bielman, Detroit, Mich.
Tug	Floss, Geo. A.	24	16	58x15	1903	Geo. Floss, Buffalo, N. Y.
Gas	Flotilla	12	11	41x12	1891	R. Hanson, Washington Isl., Wis.
Str	Flower, Roswell P.	1593	1165	264x38	1887	Milwaukee S. S. Co., David Vance, Mngr., Milwaukee, Wis.
Slp	Flying Cloud	10	10	40x12	1892	A. Nann, Thousand Island Park, N. Y.
Sch	Foam	42	40	81x18	1882	S. V. Philbrook, Marinette, Wis.
Str	Folsom, A.	768	449	187x33	1885	Name changed to Trude R. Wiehe.
Str	Ford, J. C.	710	597	172x32	1889	Nipigon Transit Co., O. L. E. Weber, Secy., Port Huron, Mich.
Sch	Ford River	299	284	143x29	1879	Kelley Lbr. & Shingle Co., Traverse City, Mich.
Str	Forest City	1926	993	215x33	1870	Capt. M. W. Humphrey, Detroit, Mich.
Sch	Forester, L. B.	21	20	51x15	1886	Jane T. Randall, South Haven, Mich.
Str	Fortuna	150	83	103x23	1903	J. W. Parmelee, Chicago, Ill.
Str	Fortune	199	108	104x29	1875	Marquette, Mich.
Sch	Forward	96	19	67x18	1884	Joseph Challe, Menominee, Mich.
Str	Foster, A.	93	85	79x24	1899	Price Lumber & Mfg. Co., Fremont, O.
Str	†Foster, Parks	1729	1475	262x39	1889	J. G. Keith, 138 Rialto, Chicago, Ill.
Str	Foster, I. N.	355	277	134x26	1872	Leatham & Smith, Sturgeon Bay, Wis.
Sch	Foster, Samuel H.	672	639	189x38	1873	J. A. Calbick, Chicago, Ill.
Sch	Fournica, Sofie	22	19	46x15	1897	Chas. Bird, Cheboygan, Mich.
Str	Fox	9	9	38x11	1896	Judson Alexander, Michigan City, Ind.
Sch	Francis, C. H.	116	93	89x17	1895	Geo. B. Hall, Rochester, N. Y.
Sch	Francomb, J. A.	638	625	180x36	1889	Holland & Graves, Buffalo, N. Y.
Tug	†Frank W.	93	46	74x18	1891	Great Lakes Towing Co., Cleveland, O.

Tug	Frank & Ginn.....	26	18	58x 6	1903	Joseph L. Myers, Buffalo, N. Y. Formerly Maud Moon. Rebuilt in 1899.
Str	Frank, S. Jr.....	23	16	59x13	1891	Frank M. Stabel, Buffalo, N. Y.
Str	Franklin, Gen. W. B	10	6	45x 8	1880	T. M. Hunt, Alexandria Bay, N. Y.
Tug	Fred B.	16	8	47x14	1889	F. W. Gilchrist, Alpena, Mich.
Str	Fred L.	19	12	48x14	1877	J. B. Dewey, Monroe, Mich.
Sch	French, H. C.	142	111	95x18	1888	M. Kelly, Buffalo, N. Y.
Str	French, G. Watson...	3883	3064	356x50	1903	C. W. Elphicke, Chicago, Ill.
Tug	Friant, Thomay ...	81	46	96x18	1884	Wm. H. Rowe, Dollar Bay, Mich.
Str	Frick, H. C.	4713	3159	416x50	1899	Mitchell & Co., Cleveland, O.
Sch	Frisia	41	39	67x19	1882	Wm. H. Rees, Clayton, N. Y.
Sch	Fritz, John	4693	4447	436x50	1898	Pittsburg Steamship Co., Cleveland, O.
Slp	Frolic	10	9	40x11	1884	Peter McKeever, Chicago, Ill.
Str	Frontenac	2003	1676	270x40	1889	Cleveland-Cliffs Iron Co., Cleveland, O.
Str	Frontenac	626	479	169x26	1868	Peoples Trans. Co., foot Wabash ave., Chicago, Ill. Rebuilt 1902. Formerly Lawrence.
Str	Frost, Walter L. ...	1322	1203	235x36	1883	Rutland Trans. Co., Ogdensburg, N. Y. Wrecked.
Tug	Frost, E. E.	10	7	37x11	1885	John Owens, Buffalo, N. Y.
Str	Fryer, Robert L. ...	1810	1451	281x41	1888	Mitchell & Co., Cleveland, O.
Sch	Fryer, Robert L. ...	527	501	175x33	1880	J. A. Calbick, Chicago, Ill.
Str	Fuller	13	9	41x12	1889	Napoleon De Maro, Detroit, Mich.
Sty	Fullerton, George..	25	18	49x 9	1889	C. M. Farrar, Buffalo, N. Y.
Sty	Fullerton, J. C.	31	18	55x10	1888	Miss Jennie Tracey, Buffalo, N. Y.
Str	Fulton, Robert	4219	3181	424x45	1896	Pittsburg Steamship Co., Cleveland, O.
Sch	Fulton	256	243	137x26	1854	Chas. Weston, Mngr., N. Tonawanda, N. Y.

G

Str	Gadabout	9	7	47x 9	1892	Geo. A. Kennedy, Syracuse, N. Y.
Str	Gagnon, M. A.	18	18	48x12	1874	John Leaf, Marinette, Wis.
Sch	Galatea	610	580	176x33	1882	E. Hines Lumber Co., Chicago, Ill.
Tug	Ganges	22	18	55x12	1881	S. A. Ross, Erie, Pa.
Sch	Gardner, F. B.	402	382	177x31	1855	John C. Pringle, St. Clair, Mich.
Tug	Gardner, G. W.	53	26	65x14	1862	Great Lakes Towing Co., Cleveland, O.
Sch	Garibaldi	88	83	78x24	1869	W. Baker, New Baltimore, Mich.
Str	Garland	248	171	107x29	1880	D. B. I. & W. Ferry Co., Detroit, Mich.

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AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Class.	Vessel.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	Name and Address of Owner or Manager.
Str	Gates, John W.	5946	4440	478x52	1900	Pittsburg Steamship Co., Cleveland, O.
Str	Gault, John C.	1212	1093	218x32	1881	A. W. Colton, Toledo, O.
Sch	Gawn, Thomas	549	522	170x31	1872	M. Sicken, Marine City, Mich.
Str	Gayley, James	4777	3859	416x50	1902	Mitchell & Co., Cleveland, O.
Str	Gazelle	36	18	63x13	1878	Robert H. Luckes, Sault Ste. Marie, Mich.
Str	Gazelle	87	87	124x23	1901	—, St. Paul, Minn.
Sch	Gebhardt, A.	354	336	145x29	1869	John Stevenson, Detroit, Mich.
Tug	Gee, S. W.	62	31	74x17	1888	Great Lakes Towing Co., Cleveland, O.
Tug	Geiken, Frank P.	35	22	69x15	1891	G. C. Geiken, Charlevoix, Mich.
Tug	Gem	14	10	88x10	1882	Alton B. Tyler, Dunkirk, N. Y.
Str	Gencsee	212	171	119x27	1900	Jas. S. Watson, Rochester, N. Y.
Sis	General	132	70	97x24	1900	Great Lakes Towing Co., Cleveland, O.
Sch	General Hancock	14	13	41x12	1880	H. N. Anderson, Ephraim, Wis.
Tug	Genevieve	38	19	55x15	1890	Lake Erie Dredging Co., Buffalo, N. Y.
Sly	Genevieve	7	7	33x10	1896	W. R. Gemmill, Chicago, Ill.
Sch	Genoa	780	694	188x34	1873	Robinson Bros. Co., N. Tonawanda, N. Y.
Tug	George E.	16	12	47x11	1892	George E. Patterson, Indian River, Mich.
Sch	Georger, F. A.	825	784	200x35	1874	J. C. Gilchrist, Cleveland, O.
Sip	Georgia	895	393	195x34	1880	Goodrich Trans. Co., Chicago, Ill.
Sch	Georgia	82	78	92x21	1887	Geo. Le Maire, Depere, Wis.
Str	Georgetown	1358	919	243x40	1900	J. L. Crosthwaite, Buffalo, N. Y.
Str	Gerald, C.	271	18	62x14	1893	Bense Fish Co., Port Clinton, O.
Sch	Gerlach, Eliza	2348	257	127x26	1867	American Ship Building Co., Cleveland, O.
Str	German	77	73	80x20	1868	Thos. Isabell, Sturgeon Bay, Wis.
Sch	Germania	88	44	90x19	1880	Lake Champlain T. Co., Whitehall, N. Y.
Str	Germanic	1901	959	216x36	1888	Hutchinson & Co., Cleveland, O. Rebuilt 1901.
Str	Gerst, Philip	22	15	38x 9	1884	Newaygo Portland Cement Co., Newaygo, Mich. Abandoned.
Str	Gertrude	12	10	50x 9	1891	Jas. McRae, Dollar Bay, Mich.
Str	Gettysburg	1087	811	208x37	1887	Alger, Smith & Co., Detroit, Mich.

Tug	Giant	.....	10	5	36x13	1888	P. Deveney, Saginaw, Mich.
Str	Gifford	.....	63	43	69x19	1901	M. H. Quick, Manistique, Mich.
Str	†Gilbert, W. H.	.....	2820	2200	328x42	1892	Pittsburg Steamship Co., Cleveland, O.
Str	†Gilchrist, Frank W.	.....	4551	3451	416x50	1903	J. C. Gilchrist, Cleveland, O.
Str	†Gilchrist, Jos. C.	.....	4725	3393	416x50	1903	J. C. Gilchrist, Cleveland, O.
Str	Gilchrist, J. C.	.....	1827	1395	252x42	1887	J. C. Gilchrist, Cleveland, O.
Str	†Gilchrist	.....	3871	2997	356x50	1901	J. C. Gilchrist, Cleveland, O.
Tug	Gill, Alice M.	.....	264	202	127x28	1897	W. Gunderson, Sheboygan, Wis.
Tug	Gillen, Edward	.....	57	28	68x18	1881	Lake Superior Dred. Co., Duluth, Minn.
Tug	Gillett, F. W.	.....	28	14	54x15	1869	Semon Jeffery, Duluth, Minn.
Str	Gitana	.....	16	16	46x13	1903	Chas. W. Hirt, Erie, Pa.
Tug	Gladiator	.....	220	153	115x22	1871	Split Rock Lumber Co., Duluth, Minn. Rebuilt 1896.
Str	Gladstone	.....	2453	1913	283x40	1888	M. A. Bradley, Cleveland, O. Rebuilt 1901.
Scy	Glad Tidings	.....	9	9	38x11	1897	D. C. Gregier, Chicago, Ill.
Sch	Glad Tidings	.....	33	32	66x16	1886	W. H. Rees, Clayton, N. Y.
Slp	Gladys	.....	11	11	36x13	1893	F. W. Roach, Sault Ste. Marie, Mich.
Str	Glance	.....	28	15	51x10	1886	George Moon, Buffalo, N. Y. Abandoned.
Str	Glenn	.....	277	199	108x21	1889	Dunkley-Williams Co., So. Haven, Mich.
Str	Glidden, John N.	.....	1822	1110	221x35	1879	Wm. Gerlach, Cleveland, O. Wrecked.
Sch	Gliding Star	.....	17	17	54x14	1884	S. S. Evans, Bois Blanc, Mich.
Sly	Gloria	.....	6	6	30x 8	1899	Fred A. Carver, Chicago, Ill.
Str	Gloriana	.....	9	6	39x11	1901	A. W. Goodrich, Chicago, Ill.
Tug	Gnewuch, Charlie J.	.....	32	16	55x14	1880	Walker Bros., E. Tawas, Mich.
Sch	Godfrey, Jeremiah	.....	653	620	177x34	1881	J. B. Lozen, New Baltimore, Mich.
Tug	Godfrey, L. B.	.....	32	16	63x14	1881	Conrad Niederman, Milwaukee, Wis.
Str	Gogebic	.....	1680	1312	227x40	1887	Henry McMoran, Port Huron, Mich.
Tug	Golden	.....	44	22	63x17	1892	Conrad Niederman, Milwaukee, Wis.
Sch	Golden Age	.....	1846	1763	278x38	1882	W. C. Richardson, Mng'r., Cleveland, O.
Sch	Golden Age	.....	119	102	94x17	1897	Mary J. Christian, Rochester, N. Y.
Sch	Golden Rule	.....	363	345	139x31	1867	E. C. Recor, St. Clair, Mich.
Sch	Gold Leaf	.....	13	10	38x14	1903	Lewis D. Levasner, Bay City, Mich.
Tug	Goldsmith, Jos.	.....	60	30	82x17	1882	John B. Breyman, Toledo, O. Abandoned.
Age	Gold Standard	.....	222	222	88x25	1895	H. T. Dunbar, Buffalo, N. Y.
Sch	Goodenough	.....	16	15	45x16	1893	R. J. Cram, Detroit, Mich.
Tug	Goodill, Robert E.	17	8	48x13	1890	Penna. Fishing Co., Erie, Pa.
Sch	Goodman, W. O.	324	308	144x30	1882	Eline T. Johnson, Chicago, Ill.

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Class.	Vessel.	Gross Ton- nage	Net Ton- nage	Keel Beam	Year Built	Name and Address of Owner or Manager.
Str	Goodwill	65	44	65x17	1895	Geo. Moon, Jr., Buffalo, N. Y.
Str	†Goodyear, Frank H. 4815	3438	3438	416x50	1902	Michell & Co., Cleveland, O.
Tug	Gorden, Joseph.....	22	15	74x14	1881	Louis Guard, Charlevoix, Mich.
Sch	Gordon, Cynthia ..	44	42	67x16	1864	Niels Jepsen, Detroit Harbor, Wis.
Tug	Gordon, John	51	25	67x19	1884	Great Lakes Towing Co., Cleveland, O.
Str	Gordon, R. J.	280	202	103x23	1881	Geo. M. Dokey, S. Haven, Mich.
Tug	Gorman, Pete	60	35	69x20	1892	Charles E. Williams, Buffalo, N. Y.
Sch	Goshawk	549	522	180x32	1876	O. W. Blodgett, W. Bay City, Mich.
Str	Gould, E. F.	261	248	197x28	1875	C. L. Boynton, Port Huron, Mich.
Str	†Gould, Geo. J.	2237	1790	265x40	1893	Lake Erie Trans. Co., Toledo, O.
Str	Gould, Jay	996	836	213x33	1869	W. H. Singer, Duluth, Minn.
Tug	Goulder, H. D.	156	78	78x23	1898	Great Lakes Towing Co., Cleveland, O.
Str	Gov. Smith	2044	1547	240x42	1889	Rutland Trans. Co., Ogdensburg, N. Y.
Sch	Gowanda	130	108	95x19	1880	Ranson Lewis, Buffalo, N. Y.
Str	Gowen, Albert Y. .	359	269	124x26	1888	Keiley Isl. Lime & T. Co., Cleveland, O.
Str	Grace	41	28	63x18	1881	Edward D. Stair, Detroit, Mich.
Tug	Grace	13	7	48x12	1892	Willoughby Meisner, Dunkirk, N. Y.
Sch	Grace Belle	35	34	56x16	1885	Jas. W. Smith, Cheboygan, Mich.
Gas	Grace J.	24	17	52x14	1903	Sever Johnson, Chicago, Ill.
Str	Grace M.	12	8	45x11	1899	Wm. Galbraith, Charlotte, N. Y.
Cyt	Grafson	16	11	48x 8	1903	Henry Neilson, Oshkosh, Wis.
Sch	Graham, Lucy	61	58	74x19	1867	Mary Goodlet, Washington Harbor, Wis.
Sip	Graham, May	91	91	95x16	1879	E. A. Graham, St. Joseph, Mich.
Str	†Grammer, G. J.	3914	2850	362x48	1902	Seither Transit Co., 11 Joseph st., Cleveland, O.
Sch	Granplan	844	802	218x38	1894	James Davidson, W. Bay City, Mich.
Sch	Granada	1729	1643	247x40	1895	James Davidson, W. Bay City, Mich.
C.F.	Grand Haven	2120	1678	306x54	1903	Crosby Trans. Co., Muskegon, Mich.
Str	†Grand Haven	2320	1678	306x54	1903	Grand Trunk Car Ferry Line, E. G. Crosby, Milwaukee, Wis.
Str	†Grandon	47	33	59x16	1893	Wm. Freyensee, Sandusky, O.
Str	Grand View	17	13	49x10	1899	John A. Cook, Clayton, N. Y.
Sch	Grandy, William ..	464	441	165x32	1867	H. E. Runnels, Mngt., Port Huron, Mich.
Sch	Grant, Gen. U. S. .	63	59	85x14	1865	Geo. A. Clark, Willsboro, N. Y. Abandoned.

Sch	Grant, Levi	..... 204	194	137x26	1872	Wynand Schlosser, Milwaukee, Wis.
F. B.	Grattan, W. S.	..... 208	141	106x24	1900	Buffalo Fire Dept., Buffalo, N. Y.
Str	†Gratwick, W. H.	..... 4776	3352	416x50	1902	John Mitchell, Cleveland, O.
Str	†Gratwick, Wm. H.	..... 2018	2202	328x42	1893	U. S. Trans. Co., Cleveland, O.
Tug	Gratwick, Wm. H.	..... 20	10	48x12	1882	Great Lakes Towing Co., Cleveland, O.
Tug	Grayling	..... 17	8	54x13	1876	C. V. McMillan, Ontonogan, Mich.
Tug	Grayling	..... 15	7	44x12	1889	Carlin, Stickney & Cram, Detroit, Mich.
Str	Grayling	..... 9	5	44x10	1884	Buckeye Fish Co., Cleveland, O. Abandoned.
Sch	Grayling	..... 14	13	39x11	1875	H. G. Todd, Cheboygan, Mich.
Str	†Grecan	..... 2948	1875	296x40	1891	Pittsburg Steamship Co., Cleveland, O.
Tug	Green, Andrew H.	..... 79	54	72x20	1896	Lydon & Drews, Chicago, Ill.
Str	Green, C. H.	..... 700	504	197x33	1881	Robinson Bros. Lbr. Co., N. Tonawanda, N. Y.
Tug	Green, G. R.	..... 18	12	48x11	1874	John O'Neill, Charlevoix, Mich.
Sch	Green, Gilbert R.	..... 137	109	95x17	1887	Thos. McIntyre, Oswego, N. Y.
Sch	Green, J. L.	..... 89	85	90x27	1875	Jos. Kirkendall, Port Huron, Mich.
Tug	Green, O. B.	..... 56	28	72x16	1881	Great Lakes Towing Co., Cleveland, O.
Str	Greene, M. T.	..... 523	421	155x30	1887	Emil Durr, Milwaukee, Wis.
Tug	Gregory, John	..... 75	46	80x17	1878	L. P. & J. A. Smith, Cleveland, O.
Sch	Gregory, Mary A.	..... 87	83	84x23	1875	Martin Mickelson, Muskegon, Mich.
Str	†Greyhound	..... 1392	748	300x38	1902	White Star Line, Detroit, Mich.
Bge	Greyhound	..... 621	313	241x33	1867	Joseph H. Berry, Detroit, Mich.
Bge	Grey Oak	..... 290	277	.....	1885	Western Transit Co., Buffalo, N. Y.
Str	†Griffin	..... 1879	1526	266x38	1891	Pittsburg Steamship Co., Cleveland, O.
Str	Groh, Mary	..... 139	69	112x22	1873	H. McMoran, Port Huron, Mich.
Sch	Grover, Anna P.	..... 246	234	137x26	1868	C. W. Kotcher, Detroit, Mich.
Tug	Grover, Cris	..... 56	28	68x18	1893	Great Lakes Towing Co., Cleveland, O.
Sch	Grover, Estella	..... 25	25	52x14	1897	Wm. Dimorelle, ———.
Str	Grover, M. B.	..... 2213	1803	272x40	1898	M. A. Bradley, Cleveland, O.
Str	Gryphon	..... 28	28	82x 9	1890	C. D. Miller, Clayton, N. Y.
Sch	Guido	..... 135	129	114x24	1856	John Campbell, Port Huron, Mich.
Sfs	Gull	..... 24	16	54x13	1900	Ramney Fish Co., Cleveland, O.
Str	Gunderson Bros.	..... 46	23	75x13	1892	Thys. M. Walsma, Grand Haven, Mich.
Str	Gust, Henry	..... 37	18	60x15	1893	C. A. Higgins, Milwaukee, Wis.
Sch	Guy, Lulu	..... 14	13	41x13	1895	P. R. Eayhsfield, Grand Rapids, Mich.
Str	Gypsy	..... 9	7	31x 7	1900	John Mundie, Tonawanda, N. Y.
Yly	Gypsy	..... 23	18	41x15	1898	David Lawson, Oshkosh, Wis.

AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Class.	Vessel.	Gross Ton- nage	Net Ton- nage	Keel Beam	Year Built	Name and Address of Owner or Manager.
H						
Str	Hackett, R. J.....	1129	921	211x32	1869	Vulcan Trans. Co., Detroit, Mich.
Sch	Hackley, C. H.....	207	197	124x27	1868	H. Oertling, Milwaukee, Wis.
Str	†Hackley, C. H.....	1304	887	220x40	1892	Barry Sbt. Line, Chicago.
Str	Hackley, Erie L....	41	57	79x17	1882	Benj. Newhall, Chicago, Ill.
Tug	Hackley, J. H.....	45	22	62x16	1874	Great Lakes Towing Co., Cleveland, O.
Str	Hadley, George G.....	2073	1657	287x40	1888	Name changed to Wm. P. Rend.
Tug	Hagermann, J. J..	42	21	67x16	1872	W. H. Meyer, Milwaukee, Wis.
Sch	Haines, C. L.	125	99	94x17	1890	C. R. Castle, Buffalo, N. Y.
Bge	Halcyon	62	62	61x18	1898	F. Gotshold, Alexandria Bay, N. Y.
Ltr	Hale, O. J.	326	309	138x26	1874	Howard Trans. Co., Chicago, Ill.
Tug	Hall, D. P.	54	32	67x16	1881	Great Lakes Towing Co., Cleveland, O.
Str	Hall, Fred B.....	14	7	50x10	1883	J. R. Calkins, Port Wing, Wis.
Sch	Hall, James H....	100	95	91x22	1885	S. Hall, Manitowoc, Wis.
Tug	Hall, Mary P.....	96	48	80x19	1898	Geo. Hall Coal Co., Ogdensburg, N. Y.
Str	Hall, Stephen C...	447	342	161x30	1880	F. W. Gilchrist, Alpena, Mich.
Sch	Hall, Lena	22	21	39x11	1891	Philip Racine, Racine, Wis.
Tug	Halladay, Chas. ...	43	24	58x16	1881	Great Lakes Towing Co., Cleveland, O.
Sch	Halsted	496	471	171x33	1873	Soper Lumber Co., Chicago, Ill.
Str	Hallsted, Wm. F....	33	19	44x14	1892	Howard A. Baker, Buffalo, N. Y.
Str	Hammel, Julia C...	28	19	55x14	1893	Herman Luebke, Two Rivers, Wis.
Sch	Hammond, L. S....	339	312	137x26	1869	M. E. Sicklesteel, 1326 15th st., Detroit, Mich.
Sch	Hanaford, John W..	326	310	146x30	1875	Thos. M. Ryan, Buffalo, N. Y.
Tug	Handy, Geo. R.....	34	17	60x15	1881	C. B. Curtis, Bay City, Mich.
Sch	Handy	12	11	40x14	1901	Wm. Thormahlen, West Bay City, Mich.
Tug	Handy Boy	25	15	54x14	1882	R. Armstrong, Detroit, Mich.
Sch	Handy Boy	26	25	61x17	1874	Joseph Bullion, Duluth, Minn.
Str	†Hanna, M. A.....	4681	3116	410x50	1899	Mitchell & Co., Cleveland, O.
Sch	Hanscom, Belle ...	294	279	133x26	1874	Chas. A Chamberlain, Detroit, Mich.
Sey	Happy Home	40	40	42x14	1896	J. E. Pulver, Grand Rapids, Mich.
Str	†Harlem	2209	1868	288x41	1888	Jenks Ship Building Co., Port Huron, Mich.
Tug	Harlem	26	13	43x13	1890	Geo. M. Swan, Buffalo, N. Y.

Str	Harley	.....	23	13	39x12	1878	N. Mills, Port Huron, Mich.	Rebuilt.
Str	Harlow	.....	575	492	198x35	1891	W. J. Harlow, Toledo, O.	Rebuilt.
Sch	Harold	.....	718	692	190x34	1891	J. A. Calbick, Chicago, Ill.	
Tug	Harold J.	.....	33	21	64x16	1901	Frank P. Eichbacher, Erie, Pa.	
Str	Harper, John	.....	1951	1632	298x40	1890	J. C. Gilchrist, Cleveland, O.	
Str	Harriet M.	.....	11	8	51x11	1897	Albert Mohr, Chicago, Ill.	
Tug	Harris, Joe	.....	66	33	72x17	1873	Great Lakes Towing Co., Cleveland, O.	
Str	Harrison, Ben	.....	538	511	175x32	1889	J. L. Crosthwaite, Buffalo, N. Y.	
Tug	Harrison, Ben	.....	18	9	44x13	1889	John W. Fisher, Buffalo, N. Y.	
Sts	Harrison, Carter H.	.....	32	20	71x16	1901	James Kolson, Chicago, Ill.	
Str	Harrow, W. G.	.....	84	42	85x19	1893	Chas. H. Flower, Buffalo, N. Y.	
Str	Hart, Eugene C.	.....	522	470	152x25	1890	Hart Sibt. Line, Green Bay, Wis.	
Str	Hart, Fannie C.	.....	476	394	142x30	1888	Hart Sibt. Line, Green Bay, Wis.	
†Hart, F. W.	.....	4307	3974	400x50	1902	J. C. Gilchrist, Cleveland, O.		
Str	Hart, Harriet A.	.....	554	451	177x26	1889	Hart Sibt. Line, Green Bay, Wis.	
Sch	†Hartnell, Geo. E.	.....	3285	3154	352x44	1896	Northwestern Trans. Co., Detroit, Mich.	
Str	†Harvard,	.....	5054	4061	461x50	1900	Pittsburg Steamship Co., Cleveland, O.	
Sch	Harvey, J. M.	.....	22	17	55x13	1896	Wm. Braun, Bailey's Harbor, Wis.	
Str	Haskell, Wm. A.	.....	1530	1440	242x37	1884	Rutland Trans. Co., Ogdensburg, N. Y.	
Str	Hattie	.....	66	53	84x18	1882	J. Stevenson, Detroit, Mich.	
Sch	Hattie	.....	400	330	165x30	1873	Saginaw Bay Co., 55 Stone's Levee, Cleveland.	
Sey	Hattie	.....	20	19	45x14	1890	Morris Brouty, Detroit, Mich.	
Sly	Hattie B.	.....	7	7	35x10	1889	C. L. Bliss, Chicago, Ill.	
Sch	Hattie B.	.....	8	8	34x11	1897	John Hodge, Detroit, Mich.	
Str	Hausler, M. G.	.....	73	36	72x18	1893	Great Lakes Towing Co., Cleveland, O.	
Str	Havana	.....	1041	874	205x34	1874	N. & B. Mills, Marysville, Mich.	
Sch	Havens, P. E.	.....	65	62	86x14	1865	D. D. Bullis, Essex, N. Y.	Abandoned.
Str	†Hawgood, H. B.	.....	4655	3386	414x50	1903	Henry A. Hawgood, Cleveland, O.	
Sey	Hawthorne	.....	29	28	63x14	1893	Geo. Clinch, Chicago, Ill.	
Tug	Hay, James	.....	35	22	56x15	1879	Lewis Hohmann, Chicago, Ill.	
Sey	Hayes, Dan.	.....	145	138	112x24	1868	Sturgeon Bay Stone Co., Sawyer, Wis.	
Tug	Hayes, Jennie	.....	14	7	58x12	1889	Frank E. Nettleton, Dunkirk, N. Y.	
Sip	Hayes, R. B.	.....	164	82	134x21	1876	G. A. Boeckling, Sandusky, O.	
Tug	Haynes, F. J.	.....	27	18	50x14	1895	Great Lakes Towing Co., Cleveland, O.	
Str	Hayward, A. D.	.....	308	230	137x28	1887	Gilbert Lacroix, Mt. Clemens, Mich.	
Tug	Hazel	11	7	39x9	1893	I. H. Maxim, Ashland, Wis.	
Sip	Hazel	46	36	52x13	1892	Herman Myers, Buffalo, N. Y.	Abandoned.

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AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Class.	Vessel.	Gross Ton- nage	Net Ton- nage	Keel Beam	Year Built	Name and Address of Owner or Manager.
Str	Hazel	66	45	86x17	1896	Geo. B. Parks, Grand Haven, Mich.
Bge	H. B.	.....	.....	.....	.....	Ogdensburg C. & T. Co., Ogdensburg, N. Y.
Str	Heath, A. R.	48	42	.....	1901	D. A. Heath, Saugatuck, Mich.
Str	Heath, E. H.	99	75	100x17	1876	Wm. Kissack, Chicago, Ill.
Str	Hebard, Daniel L.	159	79	98x22	1875	Chas. S. Hebard, Pequaming, Mich.
Tug	Hebard, Robert H.	65	32	68x18	1889	Great Lakes Towing Co., Cleveland, O.
Tug	Hebard, R. H.	.....	6	40x11	1882	Hand & Johnson T. Line, Buffalo, N. Y.
Str	Hecia	1110	909	224x34	1882	Geo. Hall Coal Co., Ogdensburg, N. Y.
Str	Heffelfinger, F. T.	4897	3630	430x50	1901	Peavy Steamship Co., Duluth, Minn.
Str	Heider, John	10	6	38x 8	1903	John Heider, Buffalo, N. Y.
Str	Helen	31	24	60x11	1895	J. W. McQueen, Detroit, Mich.
Str	Helen C.	622	460	186x35	1874	John Smith, Manistee, Mich. Formerly F. E. Spinner.
Str	Helena	2083	1578	275x40	1888	J. C. Gilchrist, Cleveland, O.
Str	Helene	28	28	53x17	1895	Wm. A. Stace, Rochester, N. Y.
Tug	Helene	24	12	63x13	1883	Ranney Fish Co., Cleveland, O.
Tug	Helm, D. T.	64	32	68x18	1893	Great Lakes Towing Co., Cleveland, O.
Sch	Helvetia	793	753	204x35	1873	Edw. Hines Lumber Co., Chicago, Ill.
Sch	Hengerer, Wm.	125	90	91x17	1894	Daniel Kill, of Clay, N. Y.
Str	Hennepin	990	639	208x35	1888	Lake Shore Stone Co., Milwaukee, Wis. Rebuilt 1902.
Str	Hennes, Annie R.	47	37	59x12	1884	L. Hennes, Houghton, Mich.
Bge	Henrietta	113	113	126x28	1879	Chas. R. Maples, Duluth, Minn.
Str	Henry	30	16	60x14	1876	M. A. Callaghan, Cleveland, O.
Tug	Henry, Charles	22	11	45x12	1880	L. P. & J. A. Smith Co., Cleveland, O.
Tug	Hermann, G. M. A	34	17	61x14	1891	Henry Schroeder, Two Rivers, Wis.
Sch	Herschel	238	226	121x27	1872	Geo. M. Kuna, Detroit, Mich.
Tug	Hershey, Peter D.	14	7	42x12	1892	Patrick Tivnan, Tonawanda, N. Y.
Str	Hesper	1858	1539	250x41	1890	M. A. Bradley, Cleveland, O.
Str	Hianatha	1902	1150	224-26	1890	J. C. Gilchrist, Cleveland, O.

1902	St. Paul, Minn.
1900	Pittsburg Steamship Co., Cleveland, O.
1890	Patrick Chambers, Fish Creek, Wis.
1890	Chas. Franklin, Erie, Pa.
1867	C. H. Ellis, Milwaukee, Wis.
1901	A. R. Hinckley, Oswego, N. Y.
1886	Now Rembha.
1898	E. Hines Lumber Co., Chicago, Ill.
1894	Michael Maher, Erie, Pa.
1889	Indiana Transp. Co., Michigan City, Ind.
1892	W. J. Pountain, Oshkosh, Wis.
1862	A. C. McLean, Saginaw, Mich.
1868	Ogdensburg C. & T. Co., Ogdensburg, N. Y.
1873	Stanley B. Smith & Co., Detroit, Mich
1873	Fred Balow, Kenosha, Wis.
1890	Hugh Mallory, Ontonogan, Mich.
1897	M. Hoadley, Alexandria Bay, N. Y.
1870	Geo. Kemp, Sault Ste. Marie, Mich.
1898	Mitchell & Co., Cleveland, O.
1881	Graham & Morton Trans. Co., Chicago, Ill. Formerly City of Milwaukee.
1880	J. R. McCarthy, Buffalo, N. Y.
1881	Tonawanda I. & S. Co., N. Tonawanda. N. Y.
1872	Shannon & Garey, Saginaw, Mich.
1888	Ole Oleson, Oshkosh, Wis.
1896	Pittsburg Steamship Co., Cleveland, O.
1903	W. A. Hawgood & Co., Cleveland, O.
1867	Erick Erickson, Racine, Wis.
1874	Jessie A. Slyfield, Frankfort, Mich.
1866	Eugene H. Westbrook, Marine City, Mich.
1890	Jos. Whitmore, Erin, Mich.
1881	H. W. Hubbell, Saginaw, Mich.
1876	D. E. Stevens and R. Porter, Duluth, Minn.
1890	Eugene Loesch, Erie, Pa. Abandoned.
1883	Mitchell & Co., Cleveland, O.

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AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Class.	Vessel.	Gross Ton- nage	Net Ton- nage	Keel Beam	Year Built	Name and Address of Owner or Manager.
Str	Hopkins, A. L.	756	640	170x32	1880	N. D. Carpenter, Detroit, Mich.
Str	Hopkins, Mark ...	732	493	186x32	1888	Rebuilt and name changed to Myron.
Slp	Hopkins, Polly ...	7	6	39x12	1887	H. Howard, Sodus, N. Y. Dismantled.
Bge	Horn, Clara	242	231	115x26	1891	Beaubien Ice & Coal Co., Detroit, Mich.
Sch	Hoskins, John	69	66	86x14	1870	Jos. Fleury, Essex, N. Y. Abandoned.
Str	†Houghton, Douglas.5332	4034	4034	456x50	1899	Pittsburg Steamship Co., Cleveland, O.
Sch	Houghton, Geo. G. ...	332	315	187x26	1873	L. S. Sullivan, Toledo, O.
Str	Houghton, H.	210	151	126x27	1889	H. Houghton, Detroit, Mich.
Tug	Howard	195	97	114x22	1864	James Davidson, W. Bay City, Mich.
Str	†Howard, John C.	1244	921	220x39	1903	Geo. Hall Coal Co., Ogdensburg, N. Y.
Sch	Howard, John P. ..	97	92	96x21	1882	N. W. Fisk and Wm. Montgomery, Isle La Motte, Vermont.
Sch	Howard, Kate E. ...	96	91	97x21	1867	John A. Hartnell, Kenosha, Wis.
Str	†Howe, Geo. C.	1550	955	241x41	1903	Gt. Lakes & St. L. Trans. Co., A. B. Wolvin, Mngr., Duluth, Minn.
Sch	Howe, William	99	99	86x26	1851	Wm. Bouron, Whitehall, N. Y. Abandoned.
Sch	Howland, Thos. H. ...	298	283	138x26	1872	H. McMorrin, Port Huron, Mich.
Sch	Howlett, Robt.	158	127	116x25	1870	John Connelly, Chicago, Ill.
Str	†Hoyt, Colgate	1282	1008	276x36	1890	Pittsburg Steamship Co., Cleveland, O.
Str	†Hoyt, James H.	3934	2792	363x50	1902	Provident Steamship Co., Duluth, Minn.
Sch	Hubbard, Newell ...	55	52	75x20	1867	John Denstead, Detroit, Mich.
Str	Hudson	20	10	43x13	1894	Simeon Staley, Buffalo, N. Y.
Tug	Hudson, J. L.	18	11	53x13	1888	Mrs. Julia Lay, Sandusky, O.
Str	†Hugoma	2182	1284	249x40	1901	L. H. Morley, Rochester, N. Y. On Atlantic
Str	Hull, Charles B. ...	14	7	35x11	1876	Michael J. Ryan, Duluth, Minn.
Tug	Hunter	224	181	135x19	1877	C. E. Ainsworth, Sault Ste. Marie, Mich.
Str	Huntress	114	79	109x18	1880	Wm. H. D. Barr, Buffalo, N. Y.
Str	Hurd, Joseph L. ...	537	389	171x29	1869	Leatham & Smith, Sturgeon Bay, Wis.
Str	Hurlbut, Chauncey.1009	910	829	184x32	1874	Teagan Trans. Co., Detroit, Mich.
Sch	Huron	910	900	119x38	1893	I. P. & I. A. Smith Co., Cleveland, O.

Sch Hutchins'n, Emma C 786	699	195x34	1878 Hutchinson & Co., Cleveland, O.
Sch Hutchinson, John M 980	931	229x36	1878 James Corrigan, Cleveland, O.
Str tHutchinson, J. T...3734	2780	346x48	1901 Hutchinson & Co., Cleveland, O.
Sch Hutt, Hattie 290	186	127x26	1873 M. Mathisen, Milwaukee, Wis.
Bge H. B. & B. No. 1.. 184	184	.....	1891 Hughes Bros. & Bangs, Buffalo, N. Y.
Bge H. B. & B. No. 2.. 183	183	.....	1891 Hughes Bros. & Bangs, Buffalo, N. Y.
Bge H. B. & B. No. 3.. 193	193	.....	1891 Hughes Bros. & Bangs, Buffalo, N. Y.
Bge H. B. & B. No. 4.. 313	313	.....	1893 Hughes Bros. & Bangs, Buffalo, N. Y.
Bge H. B. & B. No. 5.. 177	177	.....	1898 Hughes Bros. & Bangs, Buffalo, N. Y.
Bge H. B. & B. No. 6.. 178	178	.....	1898 Hughes Bros. & Bangs, Buffalo, N. Y.
Bge H. B. & B. No. 7.. 215	215	.....	1898 Hughes Bros. & Bangs, Buffalo, N. Y.
Bge H. B. & B. No. 8.. 263	263	.....	1898 Hughes Bros. & Bangs, Buffalo, N. Y.
Bge H. B. & B. No. 9.. 186	186	.....	1898 Hughes Bros. & Bangs, Buffalo, N. Y.
Bge H. B. & B. No. 10. 186	186	.....	1898 Hughes Bros. & Bangs, Buffalo, N. Y.
Bge H. B. & B. No. 11. 186	186	.....	1898 Hughes Bros. & Bangs, Buffalo, N. Y.
Bge H. B. & B. No. 12. 186	186	.....	1898 Hughes Bros. & Bangs, Buffalo, N. Y.
Bge H. B. & B. No. 13. 354	354	.....	1899 Hughes Bros. & Bangs, Buffalo, N. Y.
Bge H. B. & B. No. 14. 354	354	.....	1899 Hughes Bros. & Bangs, Buffalo, N. Y.
Bge H. B. & B. No. 15. 390	390	1898 Hughes Bros. & Bangs, Buffalo, N. Y.
Bge H. B. & B. No. 17. 330	330	1898 Hughes Bros. & Bangs, Buffalo, N. Y.

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Out of com.

Out of com.

Sly Ibis 24	23	56x14	1903 Chas. L. Sherrill, Buffalo, N. Y.
Bge Ice King 209	209	85x24	1888 R. Houghton, Detroit, Mich.
Bge Ice Queen 209	209	85x24	1888 R. Houghton, Detroit, Mich.
Sch Isman, B. B. 289	274	153x26	1881 Pittsburg Coal Co., Cleveland, O.
Sch Ida 169	161	121x27	1867 C. C. Neilson, Chicago, Ill.
Str Ida 57	98	82x20	1872 Carrie McG. Koch, Sandusky, O.
Sly Ida 6	5	32x10	1900 Ida Vedder, Buffalo, N. Y.
Gas Ida 9	7	39x11	1903 F. J. McAlpine, Cleveland, O.
Sch Ida Caroline 22	15	43x13	1902 Otto F. Oswald, Milwaukee, Wis.
Str Ida E. 181	146	132x28	1887 Charles Lonsby, Mt. Clemens, Mich.
Sch Ida Jane 18	19	87x14	1881 J. R. Lynd, Sturgeon Bay, Wis.
Sch Idea 59	56	67x19	1889 Thos. Olsen, Green Bay, Wis.
Sty Ideal 40	32	60x12	1885 Warren H. Field, Sodus Point, N. Y.
Sty tIdeal 20	13	54x14	1891 Ranney Fish Co., Cleveland, O.

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AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Sty	Idler	57	41	95x15	1886	H. W. Visger, Alexandria Bay, N. Y.
Scy	Idler	84	80	97x23	1864	James Corrigan, Cleveland, O.
Stp	Idlewild	363	284	186x26	1879	A. R. Lee, Detroit, Mich.
Bge	Ike	36	36	.....	1889	Allen L. Simser, Massena, N. Y.
Str	Illinois	2427	1468	225x40	1889	Northern Mich. Trans. Co., Chicago, Ill.
Tug	Illinois	287	34	107x24	1898	Chicago Fire Dept., Chicago, Ill.
Sly	Illinois	8	8	37x 9	1901	Jos. E. Uihlein, Milwaukee, Wis.
Str	Imperial	68	43	89x19	1870	McCormick Reaper Works, Chicago, Ill.
Scb	Imperial	95	63	98x17	1878	W. H. Wallace, Chicago, Ill.
Str	Ina	16	9	42x10	1881	E. J. Dodge, Put-in-Bay, O.
Slp	Ina	10	10	37x14	1886	Henry Henderson, Chicago, Ill.
Str	India	1239	932	210x32	1871	E. & W. T. Co. Anchor Line, Buffalo, N. Y.
Sch	India	316	300	137x26	1873	Name changed to Hocking.
Stp	Indiana	1177	961	201x35	1890	Goodrich Trans. Co., Chicago, Ill.
Sch	Indian Bill	32	30	61x17	1892	Frank Bean, Muskegon, Mich. Abandoned.
Sty	Indra	9	7	35x 8	1892	Joseph Mang, La Salle, N. Y.
Tug	Industry	80	54	82x21	1897	Great Lakes Towing Co., Cleveland, O.
Sch	Industry	55	52	73x18	1870	Hans Elison, Sturgeon Bay, Wis.
Tug	Inman, B. B.	89	60	81x19	1895	Great Lakes Towing Co., Cleveland, O.
Sch	Interlaken	567	538	170x34	1893	Comstock & Sinclair, Duluth, Minn.
Tug	International	144	100	80x26	1889	Charles Ripley, Sault Ste. Marie, Mich.
Str	Inter Ocean	1068	940	213x36	1872	C. S. Mahoney, Buffalo, N. Y.
Bge	Interstate	303	303	.....	1899	W. A. Whitney, W. Superior, Wis.
Gyt	Iola	11	7	39x 9	1903	S. W. Hollister, Oshkosh, Wis.
Str	Ione	15	9	56x 9	1878	J. F. Easton, Alexandria Bay, N. Y.
Str	Ionia	1418	1011	209x38	1890	F. M. Thompson, Hammond Bldg., Detroit, Mich.
Str	Iosco	2051	1706	291x41	1891	W. A. Hawgood, Cleveland, O.
Stp	Iowa	1157	846	202x36	1896	Goodrich Trans. Co., Chicago, Ill.
Str	Ireland, R. L.	4470	3143	416x50	1903	J. C. Gilchrist, Cleveland, O.
Sch	Ireland	10	.....	.....	....	Ogdensburg C. & T. Co., Ogdensburg, N. Y.
Str	Irene	10	7	44x12	1893	D. F. Daley, Menominee, Mich.

Sch Iris	62	59	74x19	1866	John C. Jessen, Detroit Harbor, Wis.
Sly Iris	12	12	47x15	1895	F. H. Payne, Erie, Pa.
Str Irma	30	21	51x11	1892	H. C. Derksen, Oshkosh, Wis.
Str Iron Age	1114	967	226x34	1880	James Corrigan, Cleveland, O.
Str Iron Chief	1154	966	212x33	1881	James Corrigan, Cleveland, O.
Sch Iron City	648	615	187x36	1874	Guy White, N. Tonawanda, N. Y.
Sch Iron Cliff	1116	1077	212x35	1881	James Corrigan, Cleveland, O.
Str Iron Duke	1152	962	212x35	1881	James Corrigan, Cleveland, O.
Str Iron King	1702	1223	252x38	1887	Dul. & Atlantic Trans. Co., Detroit; W. C. Richardson, Mngr., Cleveland.
Sch Iron Queen	1384	1321	242x38	1887	
Str I Wonder	16	10	65x10	1897	Ino. Hoadley Alexandria Bay, N. Y.
Str Iroquois	1698	1469	242x41	1892	W. C. Richardson, Cleveland, O.
Sly Iroquois	11	11	34x12	1902	J. S. Hawkinson, Chicago, Ill.
Str Iroquois	1169	795	214x34	1901	Arnold Trans. Co., Mackinac, Mich.
Tug Isbell, Wayne	31	15	70x14	1876	A. W. & W. B. Comstock, Alpena, Mich.
Sch Ishpeming	418	397	157x26	1872	Capt. Hiram Henderson, Cleveland, O.
Stp Island Belle	89	65	100x20	1879	A. A. Holmes, Alexandria Bay, N. Y.
Str Islander	118	59	425x20	1871	Thousand I. Sibt. Co. Cape Vincent, N. Y.
Str Islander	201	174	114x23	1895	Geo. T. Arnold, Mackinac, Mich.
Tug Islay	26	13	60x13	1892	A. B. Wolvin, Duluth, Minn.
Slp Isle La Motte Boy	16	16	48x11	1890	P. Pears, Isle La Motte, Vt.
Str Italia	2305	1735	289x42	1889	James Corrigan, Cleveland, O.
Str I. X. L.	13	10	41x14	1888	W. Leidheiser, Brownhelm, O.
Sch I. and M. C.	90	67	96x17	1883	J. E. Lindquist, Chicago, Ill.
Sty Ivy	38	26	80x11	1901	Walter H. Oades, Detroit, Mich.
Sty Iyotan	12	8	37x 7	1900	Theo. Lampel, Oshkosh, Wis.

J

Sch Jackson, G. K.	400	380	163x31	1882	Geo. D. Jackson, Bay City, Mich.
Tug Jackson, Rose	35	17	63x14	1881	Corbett & Jackson, Chicago, Ill. Formerly North Muskegon.
Str James, Henry R.	2048	1552	240x42	1890	Rutland Trans. Co., Ogdensburg, N. Y.
Sty Jamie	8	5	42x 8	1901	E. Oswego, N. Y.
Str Japan	1289	982	210x32	1871	E. & W. T. Co., Anchor Line, Buffalo, N. Y.
Sty Jean	28	19	71x10	1897	Thos. A. Gillespie, New York.

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CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Kel Born	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Tug	Jean	12	6	49x12	1889	Charles Hudson, Erie, Pa.
Sch	Jeanette, Olive	1271	1208	242x39	1890	W. A. Hawgood, Cleveland, O.
Slp	Jeanette	11	11	88x11	1893	J. L. Doornhein, Chicago, Ill.
Str	Jeffrey, J. H., Jr.	12	6	41x12	1892	J. H. Jeffrey, Duluth, Minn.
Str	Jinks, J. M.	4644	3881	414x50	1902	Arthur Hawgood, Cleveland, O.
Sch	Jenness, B. W.	356	339	155x29	1867	O. W. Blodgett, Bay City, Mich.
Sch	Jennett	329	312	141x28	1881	Charles Weston, Mngr., N. Tonawanda, N. Y.
Str	Jennie R.	15	7	50x 9	1888	Chas. L. Hall, Oconto, Wis.
Sch	Jenny, W. LeB.	3422	3280	366x46	1897	Pittsburg Steamship Co., Cleveland, O.
Sty	Jerome	16	10	40x 9	1900	P. J. Hamler, Chicago.
Sty	Jessie	99	6	39x 7	1886	Cook & Brown Lime Co., Oshkosh, Wis.
Bge	Jessie	201	201	126x25	1900	Adams & Duford Co., Chaumont, N. Y.
Sty	Joe	99	81	80x16	1889	D. M. Gerber, Saugatuck, Mich.
Sch	Johnson, Charles J.	99	49	98x16	1887	Geo. B. Hall, Rochester, N. Y.
Tug	Johnson, D. D.	17	8	45x12	1888	Carkin, Stickney & Cram, Detroit, Mich.
Str	Johnson, H. J.	1997	1821	260x40	1888	H. J. Johnson, Green Springs, O.
Str	Johnson, H. W.	222	165	93x25	1865	Mich. Wkg. & Salvage Co., Detroit, Mich.
Tug	Johnson, John	59	29	68x16	1887	Light House Board.
Sch	Johnson, John T.	448	425	171x31	1873	W. L. Martin, Cheboygan, Mich.
Tug	Johnson, L. B.	42	21	60x15	1868	Great Lakes Towing Co., Cleveland, O.
Sch	Johnson, Nellie	41	39	51x18	1894	John Johnson, St. James, Mich.
Str	Joker	14	7	37x11	1885	A. Hamel, Mackinac Island, Mich.
Str	Joliet	1921	1596	266x38	1890	Pittsburg Steamship Co., Cleveland, O.
Stb	Joliet	93	53	97x17	1883	W. H. Wallace, Lockport, Ill.
Str	Jones, Arthur	34	20	58x15	1893	Albert Brown, Sand Beach, Mich.
Sch	Jones, Chester B.	493	470	167x30	1873	Argo S. S. Co., E. L. Fisher, Mngr., Cleveland, O.
Sch	Jones, John V.	200	190	125x27	1875	Nathan Allen, Kenosha, Wis.
Sch	Jones, William	385	366	152x30	1862	John J. Boland, 202 Main st., Buffalo, N. Y.
Sch	Josephine	20	28	55x17	1866	Andrew McTigue, Cleveland, O.
Slp	Josephine	15	14	47x18	1881	W. S. Tucker, Mt. Clemens, Mich.
Sch	Josephine	12	11	47x18	1888	D. Whetmore, Augres, Mich.
Slp	Josephine	8	8	88x10	1899	W. A. Merriman, Chicago, Ill.

Str Josie	20	10	49x15	1893	John Beck, Alpena, Mich.
Scw Joubert	194	194	104x26	1900	W. A. Whitney, W. Superior, Wis. Rebuilt 1902.
Sch Judd, E. T.	869	869	149x29	1872	Adelaide M. Jex, Toledo, O.
Slp Judge	18	17	47x12	1889	W. McCreary, Erie, Pa.
Slp Julia	42	40	62x15	1884	P. Pears, Isle La Motte, Vt.
Sch Julia	47	44	71x19	1888	Chas. E. Swanson, Marinette, Wis.
Str Juliet	61	44	70x17	1889	John A. Kroser, Chicago, Ill.
Bge June	44	44	52x22	1902	Alex. Ruelle, Detroit, Mich.
Str Juniata	1708	1474	252x35	1878	E. & W. T. Co., Anchor Line, Buffalo, N. Y.
Str Jupiter	3719	2769	346x48	1901	J. C. Gilchrist, Cleveland.
Sch Jura	227	216	129x25	1862	Ole Hanson, Milwaukee, Wis.

K

Scy Kaelma	9	6	50x 8	.....	Wm. J. McCaffrey, Plattsburg, N. Y.
Str Kaiser Wilhelm	28	18	53x12	1874	A. Mitchell, Marquette, Mich. Abandoned.
Str Kalirwa	1941	1881	269x40	1887	St. Clair S. S. Co., (Cleve. Cliffs), Cleveland, O.
Str Kalkaska	679	555	178x33	1884	J. A. Calbick, Chicago, Ill.
Sty Kanaka	14	7	46x10	1891	....., Cleveland, O.
Str †Kanawha	2182	1906	243x43	1902	F. B. Chesbrough, Emerson, Mich.
Sch Kanters, R.	164	155	112x25	1873	W. W. Lill, Chicago, Ill. Lost.
Tug Karl, Minnie	23	13	52x13	1883	D. E. Stevens, Duluth, Minn.
Sty Karma	38	19	78x12	1900	W. H. Post, Ogdensburg, N. Y.
Str Kate	47	26	62x16	1889	Frank Perry, Sault Ste. Marie, Mich.
Slp Kate	10	10	46x12	1900	David Parry, Clayton, N. Y.
Str †Kearsarge	3092	2721	328x44	1894	Interlake Co., P. M. & Co., Agts, Cleveland, O.
Str †Keefe, James S.	1640	944	238x41	1903	Gt. Lakes & St. L. Trans. Co., A. B. Wolvin, Mngr., Duluth, Minn.
Sch Keith, Ida	489	465	163x30	1873	Shannon & Garey, Saginaw, Mich.
Tug Kelderhouse, J.	43	21	64x15	1884	Great Lakes Towing Co., Cleveland, O.
Sch Kelderhouse, John..	500	475	168x32	1857	Allen H. Zacharias, Detroit, Mich.
Sch Keller, Hugo	190	105	92x17	1890	W. C. Witter, Buffalo, N. Y.
Sch Kelley Edward	776	737	187x35	1874	Chas. W. Kotcher, Detroit, Mich.
Str Kelley, Fred	770	575	212x32	1871	M. A. Bradley, Cleveland, O.
Sch Kelley, Georgie	870	852	145x30	1874
Sch Kelly	69	69	72x24	1891	Edwin L. Thompson, Detroit, Mich.

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AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Bge	Kelly, Nora	25	25	43x18	1886	James Magee, Duluth, Minn.
Str	Kelton, Minnie E.	682	503	171x35	1894	Michigan, Indiana & Illinois Line, Pier 1, Chicago, Ill.
Str	Kendall, Harvey J.	398	264	141x30	1892	N. & B. Mills, Marysville, Mich.
Str	†Kennbec	2183	1913	243x43	1891	F. B. Chesbrough, Emerson, Mich.
Tug	Kennedy, Wm.	86	43	74x20	1893	Great Lakes Towing Co., Cleveland, O.
Str	Kennedy, James	10	7	37x11	1895	Daniel Cotter, Buffalo, N. Y.
Str	†Kensington	3762	3130	370x50	1903	Kensington Trans. Co., W. D. Young, Mngr., Bay City, Mich.
Str	†Kerr, D. G.	5531	3992	448x52	1903	Provident S. S. Co., A. B. Wolvin, Mngr., Duluth, Minn.
Sty	Kestrel	21	15	59x12	1892	Samuel Keyser, Essex, N. Y.
Str	†Ketcham, J. B.	2d.. 908	779	193x40	1892	H. N. Loud, Oscoda, Mich.
Sch	Ketchum, Jas. L.	413	393	156x31	1867	W. H. Sharp, Bay City, Mich.
Str	Ketchum, V. H.	1806	1291	233x40	1874	Frank Seither, 11 Joseph st., Cleveland, O.; R. W. England, Mngr., 76 Rosedale ct., Detroit. Rebuilt 1901.
Str	Kewaunee	133	67	95x24	1900	H. L. Brown, Buffalo, N. Y.
Sch	Kewaunee	194	172	123x27	1899	A. M. Skang, Escanaba, Mich.
Sch	Keweenaw	493	468	205x30	1866	George Nester, Detroit, Mich.
Tug	†Keystone	94	54	82x19	1891	Keystone Lumber Co., Ashland, Wis.
Tug	Keystone	18	13	56x14	1902	Simon Schacht, Erie, Pa.
Sch	Kimbell, Chas.	29	28	55x16	1883	Susie Schapson, Cleveland, O.
Tug	King, Wm. H.	58	39	.....	1902	Buffalo Dredging Co., Buffalo, N. Y.
Sch	King, C. G.	457	484	163x29	1870	Grace Harbor Lumber Co., Detroit, Mich.
Sch	Kingfisher	517	491	165x32	1867	Lake Shore Saw Mill & L. Co., Cleveland, O.
Tug	King, Fred	13	6	50x10	1889	Robinson Basket Co., Painesville, O.
Str	King, George	582	380	176x30	1874	M. Sicken, Marine City, Mich.
Tug	King, Jennie	19	6	49x11	1882	R. Robinson, Cheboygan, Mich.
Sch	King of the Kids	55	55	71x20	1901	Wm. H. Reese, Clayton, N. Y.
Str	†Kirby, Frank E.	582	374	195x30	1890	Ashley & Dustin, Detroit, Mich.
Str	Kirby, S. R.	2888	1823	294x42	1890	Northwestern Trans. Co., Detroit Mich.

Scb Kirk, W. B.....	116	93	92x14	1887 Buffalo, Rochester & Syracuse Trans. Co. Buffalo, N. Y.
Sch Kitchen, J. B.....	287	272	132x26	1873 F. W. Gilchrist, Alpena, Mich.
Str Kittie D.....	20	14	53x12	1902 Wm. Deekert, Buffalo, N. Y.
Sch Knapp, F. M.....	384	365	155x29	1867 Abram King, Port Huron, Mich.
Tug Knapp, L. W.....	17	11	57x13	1895 Frank E. Nettleton, Dunkirk, N. Y.
Str Knapp, M. A.....	60	31	66x17	1893 Conrad Niederman, Milwaukee, Wis.
Sch Knapp, Robbie	15	14	50x13	1869 J. B. Clarke, St. James, Mich.
Tug Knight Templar ..	38	19	62x16	1890 F. C. Maxon, Milwaukee, Wis.
Sch Knight Templar ..	289	275	135x26	1865 F. W. Gilchrist, Alpena, Mich.
Str Knight, Theodore C.	29	20	48x14	1903 Theodore E. Cowles, Buffalo, N. Y.
Str Knobloch, Lena	87	55	75x18	1881 Susan A. Davis, Chicago, Ill.
Bge Koal Kabin.....	567	557	172x35	1882 R. P. Thompson, Port Huron, Mich.
Tug Kochn, Frederick ..	39	19	70x13	1886 Ernst Schneidewind, Sheboygan, Wis.
Tug Koerber, Henry, Jr.	44	30	69x16	1902 Fix Bros., Buffalo, N. Y.
Str Kremer, C. E.....	12	6	43x 9	1879 Robt. Allison, Cheboygan, Mich.
Scw Kruger, Paul	227	227	109x29	1899 Wm. H. Bolten, Cleveland, O.
Bge Krupp, Alfred	3259	3124	352x44	1896 Pittsburg Steamship Co., Cleveland, O.
Tug Kunkle Bros.	55	27	69x19	1890 Great Lakes Towing Co., Cleveland, O.
Str Kunz, Dan	99	59	102x24	1888 Wm. Faragher, Cleveland, O.

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Str †Lackawanna	2015	1595	260x39	1888 Lake Transit Co., J. E. Ball, Supt., Buffalo, N. Y.
Scb Lady Winnett	141	110	95x17	1887 L. S. VanAmburgh, Buffalo, N. Y.
Str †Lafayette	5113	3827	454x50	1900 Pittsburg Steamship Co., Cleveland, O.
Str †Lagonda	3647	3017	375x45	1896 Ena Steamship Co., Mitchell & Co., Cleveland
Str Lagonda	62	42	69x16	1902 John J. Hoppes, Springfield, O.
Sch Lain, John, Jr.....	12	8	41x 9	1900 Ole Hansen, Milwaukee, Wis.
Sch Lake Forest	900	273	145x29	1869 James Erickson, Milwaukee, Wis.
Str †Lake Shore	3871	2997	356x50	1901 J. C. Gilchrist, Cleveland, O.
Sch Lake Side	39	32	68x18	1899 Frank S. Peltier, Erin, Mich.
Str †Lakeside	285	194	128x28	1901 Sandusky & Peninsula Stbt. Co., Sandusky, O.
Sch Lalla Rookh	60	57	65x19	1881 J. Johnson, Manistee, Mich.
Str Lamb, C. H.....	22	9	54x14	Rebuilt 1899.
Str †Lambert, John.....	1550	929	241x41	1903 Gt. Lakes & St. L. Trans. Co., A. B. Wolvin, Mngr., Duluth, Minn.

AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Kel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Sch	Lambert, R. T.....	23	22	50x15	1873	Wm. Davis, St. Ignace, Mich.
Sch	Lang, John	107	75	93x17	1875	Patrick Hines, Buffalo, N. Y.
Str	Langdon, James R. 2044	1550	240x42	1889	1889	Rutland Trans. Co., Ogdensburg, N. Y.
Str	Langell, Boys	387	286	151x30	1890	J. W. Ritchie, Bay City, Mich.
Str	Langell, Simon	845	677	195x34	1886	Comstock & Sinclair, Duluth, Minn.
Str	Langham	1810	1451	281x48	1888	Thos. Adams, Detroit, Mich.
Str	Lansing	1611	1247	251x41	1887	J. C. Gilchrist, Cleveland, O.
Sch	La Petite	172	163	119x23	1866	Theo. Plathner, Milwaukee, Wis.
Sch	La Rabida	52	52	75x20	1876	A. E. Dow, Manitowoc, Wis. Formerly Jessie Winter.
Gyt	La Reine	11	7	50x 8	1899	A. Arthur Caille, Detroit, Mich.
Bge	Lark	44	44	52x22	1902	T. Hurley, Detroit, Mich.
Bge	Larkin, Harry	79	79	.....	1894	Jos. B. Blake, Buffalo, N. Y.
Sch	Larson, Julia	59	56	70x18	1874	R. J. Roberts, Sand Beach, Mich.
Str	La Salle	1921	1596	266x38	1890	Pittsburg Steamship Co., Cleveland, O.
Sch	Lathrop, S. H.....	278	264	137x26	1856	F. W. Gilchrist, Alpena, Mich.
Tug	Lattimer, Geo. E.	27	19	50x16	1899	Grattan & Lattimer, Buffalo, N. Y.
Str	Laura D.	185	122	101x27	1891	Thos. J. Degnan, Toledo, O.
Cyt	Laurena	64	43	75x15	1899	James Hartness, Springfield, Vt.
Gyt	Laviolette	9	7	50x11	1903	L. Laviolette, Green Bay, Wis.
Sch	Law, Lizzie A.....	747	710	196x33	1875	Ohio Cooperation Trans. Co., Cleveland, O.
Sch	Lawson, Iver	149	141	116x25	1869	Martin Johnson, Chicago, Ill.
Sch	Lawrence, Fred M.	124	92	89x17	1893	Jennie P. Gilson, Buffalo, N. Y.
Sch	Leader	31	30	57x15	1892	Gilbert Yax, Algonac, Mich.
Tug	Leatham, John	75	38	80x17	1878	Leatham & Smith, Sturgeon Bay, Wis.
Str	Lee, Fred A.....	60	40	70x16	1896	Lake Erie Dredging Co., Buffalo, N. Y.
Str	Le Fevre	298	133	115x31	1901	W. W. Le Fevre, Tustin, Wis.
Str	Lehigh	1704	1503	238x36	1880	E. & W. T. Co., Anchor Line, Buffalo, N. Y.
Sch	Leighton, Frank C.	328	312	137x26	1875	Michigan, Indiana & Illinois Line, Pier 1, Chicago, Ill.
Str	Leimer, J. E.	139	88	124x23	1901	Mitchell Garrow, Eureka, Wis.
Str	Leland	366	318	148x27	1873	Alex. Hitchcock, Port Clinton, O.

Str	Lena L.	.....	10	10	42x11	1896	Wm. Legare, Alexandria Bay, N. Y.
Tug	Lennox, Leo	.....	15	7	39x11	1871	M. A. Cowles, Buffalo, N. Y. Abandoned.
Tug	Leona	.....	13	6	39x11	1889	Name changed to Mohawk.
Str	Leona R.	.....	16	11	44x14	1903	Adolph Roeser, Sister Bay, Wis.
Str	†Leonard, Geo. B.	.....4037	2844	380x50	1908	U. S. Trans. Co., Williamson bldg., Cleveland.	
Str	†Leroy, H. C.	.....	78	49	60x17	1892	H. Denville, Sodus Point, N. Y.
Tug	Leslie	.....	98	19	67x15	1894	T. Bradwell, Chicago, Ill.
Sch	Lester, T. G.	.....	257	246	141x26	1868	Shannon & Garey, Saginaw, Mich.
Str	Leuty, D.	.....	646	550	178x33	1882	John C. Pringle, St. Clair, Mich.
Sch	Lewie	.....	11	11	39x11	1884	Joseph Burns, Duluth, Minn.
Str	†Lewiston	.....	1808	1342	272x38	1886	John Green, Buffalo, N. Y.
Str	Liberty	.....	18	12	59x 8	1900	J. C. Leslie, St. Albans, Vt.
Str	Liberty	.....	21	10	55x12	1892	John W. Cornell, Detroit Harbor, Wis.
Str	Liberty	.....	143	126	96x18	1889	R. H. Lanyon, Chicago, Ill.
Tug	Liken, Charles W.	.....	96	27	73x17	1889	Arnot Wheeler, Au Gres, Mich.
Str	Lillie	.....	31	26	69x15	1872	A. A. & B. W. Parker, Detroit, Mich.
Str	Lillie A.	.....	11	5	46x11	1891	Daniel McInnes, Detour, Mich.
Str	Lillie D.	.....	28	28	61x15	1902	S. H. Deano, Thousand Island Park, N. Y.
Tug	Lillie and May	.....	12	8	44x10	1903	Chas. S. Moyer Buffalo, N. Y.
Sch	Lilly E.	.....	191	182	123x25	1869	Claus S. Jorgenson, Racine, Wis.
Str	Lily	.....	104	79	94x23	1889	J. N. Tucker, Mt. Clemens, Mich.
Str	Lincoln, Isaac	.....	376	250	130x30	1898	Price Lumber Co., Fremont, O.
Str	†Linn, Wm. R.	.....4328	3196	400x48	1898	Pittsburg Steamship Co., Cleveland, O.	
Str	Linden	.....	894	708	206x35	1895	Sandusky Lumber & Box Co., Sandusky, O.
Str	Lindrup	.....	42	28	63x15	1891	James Tesar, Two Rivers, Wis.
Str	Lindsay, A. G.	.....1067	678	196x37	1889	S. W. Transit Co., C. T. Williams, mgr., Cleveland.	
Str	Little Albert	.....	18	9	52x13	1888	Geo. W. Jones, Tonawanda, N. Y.
Str	Little, C. H.	.....	324	241	144x28	1903	C. H. Little Co., Detroit, Mich.
Sch	Little Lake	.....	864	346	169x29	1875	A. L. Hyde, Cleveland, O.
Gyt	Little Lady	.....	13	9	61x 8	1902	A. Church, Trenton, Mich.
Str	Little Mac	.....	25	19	60x10	1886	Henry W. Taggart, Watertown, N. Y.
Gas	Little Maeta	.....	12	11	36x11	1903	John Geniet, Charlevoix, Mich.
Str	†Livingstone	.....2184	1622	281x41	1889	Wm. Livingstone, Mgr., Detroit, Mich.	
Bge	Lizzie D.	.....	48	48	61x20	1891	Geo. A. Dupuis, Detroit, Mich.
Str	Lizzie H.	15	7	49x 9	1888	John Hannan, Ogdensburg, N. Y.
Tug	Lloyd, Hattie	34	28	65x12	1883	A. C. Mayo, Duluth, Minn.

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CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Str	Lloyd, M.....	31	22	70x14	1882	John Mohlhayen, St. Joseph, Mich.
Sch	Loadstone	32	30	67x18	1867	M. Peshea, Detroit, Mich.
Str	Lockport	19	13	46x10	1898	H. C. Doman, Oshkosh, Wis.
Str	Lockwood, C. B.....	2323	1918	285x45	1890	J. C. Gilchrist, Cleveland, O.
Gyt	Lois	25	17	59x15	1903	Cameron D. Waterman, Grosse Isle, Mich.
Str	Lookout	28	19	46x11	1894	F. C. Evershed, Irondequoit, N. Y.
Tug	Loomis, Luther	29	14	54x13	1889	J. A. Hogan, Chicago, Ill.
Str	Lorain, L.....	190	145	86x20	1891	Geo T. Arnold, Mackinac, Mich.
Str	Lorain, T.....	20	9	50x14	1900	Wm. Schlake, Chicago, Ill.
Str	Lorena	34	17	70x15	1882	Joseph Walter, Sturgeon Bay, Wis.
Tug	Lorman, C. A.....	41	20	59x16	1893	Alex. Ruelle, Jr., Detroit, Mich.
Str	Loretta	9	6	31x7	1895	Otto J. Jekel, Buffalo, N. Y.
Str	Lotus	219	188	110x22	1893	J. B. Moran, Escanaba, Mich.
Sch	Lotus	270	241	136x28	1867	J. Perry Bates, Chicago, Ill.
Str	Lotus	52	26	89x14	1887	Geo. Hall, Ogdensburg, N. Y.
Gyt	Lotus	28	19	74x9	1903	Fred. E. Wadsworth, Grosse Pointe Farms, Mich.
Scy	Louise	83	43	88x19	1878	Jos. W. Post, Sandusky, O.
Tug	Louise	15	7	44x12	1873	Mrs. Mary L. Marsden, Algonac, Mich.
Str	Louise	49	24	91x14	1893	Geo. S. Wagoner, Alexandria Bay, N. Y.
Tug	Louise B.	14	8	41x11	1898	A. W. Beidler, Chicago, Ill.
Str	Louisiana	1929	1383	267x39	1887	F. M. Osborne, Cleveland, O.
Sch	Loutit, Willie	181	172	116x25	1873	Wm. H. Sanborn, Alpena, Mich.
Tug	Lovisa	18	9	53x13	1891	A. Booth & Co., Tribune Bldg., Chicago, Ill.
Sch	Lozen, J. B.....	565	538	178x32	1890	J. B. Lozen, New Baltimore, Mich.
Str	Lucille	136	106	80x19	1883	Dora May Brown, Ashland, Wis.
Sch	Lucinda	27	26	48x15	1888	Geo. Goodwin, Toledo, O.
Sch	Luckey, A. W.	311	292	147x26	1867	Louis Sands, Manistee, Mich.
Sch	Lucy	73	65	100x23	1902	D. F. King, Detroit, Mich.
Tug	Lucy	16	11	49x12	1890	John M. Desmond, Dunkirk, N. Y.
Gyt	Lucy F.....	10	6	40x8	1901	W. W. Tolman, Oshkosh, Wis.
Sch	Ludwig, Mary	68	65	81x19	1874	John Sather, Muskegon, Mich.
Str	Luella	52	46	65x17	1898	Martha M. & T. Co., Chicago.

Str	Luise M.	18	53x11	1892	G. Muntiga, Sheboygan, Wis.
Sch	Luling, Chas.	195	123x25	1873	M. Cram, Charlevoix, Mich.
Sup	Luna	143	104x25	1892	Peoples Ferry Co., Detroit, Mich. Burned.
Tug	Lutz, Maggie	15	45x12	1873	A. Fairchild, Franfort, Mich.
Tug	Lutz, T. C.	136	82x21	1896	Great Lakes Towing Co., Cleveland, O.
Str	Luyster, P. B.	17	43x12	1897	R. Houghton, Detroit, Mich.
Str	Luzon	3582	2778	1902	E. D. Carter, Erie, Pa.
Str	Lycoming	1609	1423	1890	E. & W. T. Co., Anchor Line, Buffalo, N. Y.
Sch	Lydia	83	79	1874	Thos. W. Morse, Muskegon, Mich.
Tug	Lydton, Harry C.	67	19	1898	Chic. & Gt. Lakes Dredg. & Dock Co., Chicago.
Str	Lynch, John	166	105	1877	W. W. Le Fevre, Tustin, Wis.
Tug	Lyon, L. L.	76	88x18	1887	Great Lakes Towing Co., Cleveland, O.
Sch	Lyon, Mary	334	917	1874	Geo. Hall Coal Co., Ogdenburg, N. Y.
Sch	Lyons, Kate	201	190	1866	O. Henrickson, Muskegon, Mich.
M					
Sch	McBrier, A. J.	111	105	1884	Wm. Trudo, Bay City, Mich.
Str	McCann, Margaret.	35	22	1894	Jas. McCann, St. James, Mich.
Tug	McCarter W. J.	18	9	1886	Simon Schacht, Erie, Pa.
Tug	McCarthy, Wm.	80	54	1897	Chic. & Gt. Lakes Dredg. & Dock Co., Chicago.
Tug	McCormick	160	120	1887	J. B. Donnelly, Buffalo, N. Y.
Tug	McCormick	23	11	1867	John P. Nagle, Toledo, O.
Tug	McDonald, Rita	69	47	1897	Great Lakes Towing Co., Cleveland, O.
Str	McDougall, Alex.	3686	2662	1898	Pittsburg Steamship Co., Cleveland, O.
Bre	McDougall, John A.	415	400	1873	Edmund Hall, Detroit, Mich.
Str	McFadden, J. D.	74	74	1892	Walter S. Lloyd, Duluth, Minn.
Tug	McFadden, J. D.	15	7	1892	James Magee, Duluth, Minn.
Tug	McGraft, N.	11	5	1880	Thys. M. Walsma, Grand Haven, Mich.
Sch	McGregor, Wm.	792	696	1872	Vulcan Trans. Co., Detroit, Mich.
Str	McGregor, Mary A.	711	581	1889	W. H. Teare, 7 Carter st., Cleveland, O.
Str	McIntyre, C. A.	44	22	1884	Frank F. Brown, Buffalo, N. Y.
Sch	McLachlan, Mary E	1394	1824	1893	McLachlan Trans. Co., Port Huron, Mich.
Tug	McLane, Mary	40	20	1868	Independent Towing Co., Buffalo, N. Y. Burned.
Tug	McLean, Andrew A.	23	11	1890	A. C. McLean, Saginaw, Mich.
Tug	McMillen, A.	14	8	1872	J. Venning, St. Joseph, Mich. Abandoned.
Tug	McNaughton, P. B.	63	31	1888	P. B. McNaughton, Buffalo, N. Y.
Str	McVea, Chas.	331	263	1888	W. B. Griffin, Saugatuck, Mich.

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Class.	Vessel.	Gross Ton- nage	Net Ton- nage	Keel Beam	Year Built	Name and Address of Owner or Manager.
Str	McVittie, A.	2046	1552	240x42	1890	Rutland Trans. Co., Ogdensburg, N. Y.
Sch	McWilliams, Ed. ..	743	706	200x35	1893	Hope Trans. Co., J. A. Francombe, Mngr., Detroit, Mich.
Str	McWilliams, J. J. .	3400	2808	352x44	1895	Mitchell & Co., Cleveland, O.
Sch	Mabee, Dan	193	184	122x27	1866	John O. Burnham, Milwaukee, Wis.
Str	Mabel	27	18	68x11	1901	Jas. G. Wilson, Clayton, N. Y.
Str	McMack, Wm. H.	3781	2923	354x48	1903	Mack Estate, C. O. Jenkins, Cleveland, O.
Str	McMack, William S. .	3720	2785	346x48	1901	Lake Erie Transp. Co., Cleveland O.
Str	Madagascar	1697	1272	243x37	1894	Bigelow Bros. & Walker Co., Chicago.
Str	Madden, Lizzie	690	517	175x34	1887	M. J. Lynn, Mngr., Bay City, Mich.
Tug	Madden, Thos. F. .	17	8	47x13	1891	.....
Bge	Madreira	5039	4667	436x50	1900	Pittsburg Steamship Co., Cleveland, O.
Sch	Madonna	76	72	79x24	1871	O. Christenson, Detroit Harbor, Wis.
Gyt	Mae	15	10	45x 8	1899	..... Chicago, Ill.
Sch	Magee, John	331	315	137x26	1869	John J. Boland, Buffalo, N. Y.
Str	Maggie	30	20	54x16	1899	B. N. Burnside, Leland, Mich.
Str	Maggie	9	6	28x 7	1885	L. W. Vosburg, Oshkosh, Wis.
Sch	Maggie, Jessie	48	26	63x16	1887	Wm. J. Terrill, Cleveland, O.
Sch	Magill, C. J.	334	317	141x30	1863	Thos. M. Ryan, Buffalo, N. Y.
Sch	Magna	3259	3124	352x44	1896	Pittsburg Steamship Co., Cleveland, O.
Sch	Magnet	38	37	72x19	1880	Theo. P. Straigt, Detroit, Mich. Abandoned.
Sch	Magnetic	1946	1770	264x38	1882	J. C. Gilchrist, Cleveland, O.
Str	MaHoning	2189	1744	274x40	1892	E. & W. T. Co., Anchor Line, Buffalo, N. Y.
Sch	Maia	3804	3442	376x48	1898	Pittsburg Steamship Co., Cleveland, O.
Sch	Maid of the Mist... .	99	63	75x18	1892	Hans Neilsen, Niagara Falls, N. Y.
Str	Maid of Patuca	84	57	89x18	1901	..... Cleveland, O.
Sch	Maida	3474	3210	375x46	1898	Pittsburg Steamship Co., Cleveland, O.
Str	Maine	332	255	132x27	1892	W. H. Sharp, Bay City, Mich.
Bge	Maitland, Alexander.	3361	2998	366x44	1902	Franklin Trans. Co., D. R. Hanna, Prest., Cleveland, O.
Sch	Maize	268	255	136x26	1866	Robt. Downey & Co., Oswego, N. Y.
Sly	Majel	6	5	28x 9	1887	J. G. Cramer, Rochester, N. Y.
Str	Majestic	1985	1609	291x40	1889	Timothy Hurley, Detroit, Mich.

Bge	Majestic	63	31	76x18	1871	D. E. Stevens, Duluth, Minn.
Stb	Major	147	110	108x24	1891	Geo. Berriman, Erie, Pa.
Str	Major	12	8	37x10	1900	Anton Kolp, Milwaukee, Wis.
Str	Major	1864	1491	283x41	1889	Mitchell & Co., Cleveland, O.
Str	Major Dana	47	28	64x18	1891	W. A. Whitney, West Superior, Wis.
Str	Major Kingman ..	47	15	66x17	1901	B. L. Cowles, 121 Franklin st., Buffalo, N. Y.
Tug	Major Symons	43	30	60x17	1900	Wellington McMin, Buffalo, N. Y.
Str	†Malietoa	5229	3921	454x50	1899	Pittsburg Steamship Co., Cleveland, O.
Sch	†Malta	2237	2132	302x40	1895	Pittsburg Steamship Co., Cleveland, O.
Str	†Manchester	2132	1611	281x41	1889	D. Vance & Co. (I.-O. T. Co.), Milwaukee, Wis.
Bge	†Manda	3256	3121	352x44	1896	Pittsburg Steamship Co., Cleveland, O.
Str	Manhattan	1545	1102	252x38	1887	J. C. Gilchrist, Cleveland, O. Lost.
Sch	†Manila	5039	4607	436x50	1899	Pittsburg Steamship Co., Cleveland, O.
Str	Manistique, Marquette & Northern	2933	1755	338x56	1903	D. W. Kaufman, Grand Rapids, Mich.
Sch	Manitou	333	314	138x25	1893	H. Leonard Wilton, Detroit, Mich.
Stp	†Manitou	2944	2391	274x42	1893	Manitou Steamship Co., Chicago, Ill.
Scy	Manitou	31	29	52x16	1896	L. H. Cowles, Cleveland, O.
Tug	Mann, John C.	33	16	60x15	1898	Geo. R. Cartier, Ludington, Mich.
Sts	Mann, Mary	11	6	61x13	1891	J. W. Mann, Duluth, Minn.
Str	Manning, John P. ..	13	7	46x11	1891	Alexander Horn, Rockport, O.
Str	†Manola	2325	1835	282x40	1890	Pittsburg Steamship Co., Cleveland, O.
St	L Mansfield	832	351	159x32	1892	W. L. Scott Co., Erie, Pa.
St	Maquam	370	240	142x24	1881	Champlain Trans. Co., Burlington, Vt.
Stp	†Marcia	2237	2132	302x40	1895	Pittsburg Steamship Co., Cleveland, O.
Sch	Marci	22	15	62x11	1903	M. D. Wilber, Chicago, Ill.
Str	Marconi	175	175	72x26	1892	Wm. Osborn, Duluth, Minn.
Bge	Marengo	648	615	189x32	1873	Capt. Thos. McGowan, Detroit.
Sch	†Margaret	88	59	96x18	1902	J. H. Ruthersford, Grand Isle, Vt.
St	Margaret	18	9	52x13	1897	Henry Lay, Sandusky, O.
Tug	Marguedora	56	49	80x16	1902	T. P. Shonts, Chicago, Ill.
Cas	†Marguerite	27	13	45x14	1894	L. P. & J. A. Smith Co., Cleveland, O.
Tug	†Maria, B. M.	25	14	48x13	1874	R. B. Patterson, Ludington, Mich.
Tug	†Maricopa	4223	3669	406x48	1896	Pittsburg Steamship Co., Cleveland, O.
St	†Mariel	36	18	66x14	1883	Great Lakes Towing Co., Cleveland, O.
St	Marina	2431	1932	292x40	1891	Pittsburg Steamship Co., Cleveland, O.
Tug	†Marinette	61	30	71x18	1885	John B. Breymann, Toledo, O.

AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Class.	Vessel.	Gross Ton- nage	Net Ton- nage	Keel Beam	Year Built	Name and Address of Owner or Manager.
Str	Marion	930.	672	202x34	1880	Michigan, Indiana & Illinois Line, Pier 1, Chicago, Ill.
Sly	Marion	7	7	31x 8	1890	John Arft, Neenah, Wis.
Tug	Marion	17	8	43x13	1889	L. S. & M. S. Ry., Cleveland, O.
Tug	Marion	23	16	44x12	1892	Frank J. Matters, Dunkirk, N. Y. Abandoned
Tug	†Marion	63	43	60x18	1898	Henry Hickler, Sault Ste. Marie, Mich.
Str	†Mariposa	2831	2306	330x45	1892	Pittsburg Steamship Co., Cleveland, O.
Tug	Mariposa	92	62	93x24	1902	Richard R. Endress, Sault Ste. Marie, Mich.
Str	Mariquita	11	5	51x11	1873	Champlain Trans. Co., Burlington Vt.
Str	†Mariska	2325	1835	283x40	1890	Pittsburg Steamship Co., Cleveland, O.
Str	†Maritana	2957	2429	330x45	1892	Pittsburg Steamship Co., Cleveland, O.
Str	Marjenchka	17	14	55x11	1891	Louis C. Nash, Ogdensburg, N. Y.
Sch	Mark, John	299	284	142x26	1870	Howard A. Baker, Buffalo, N. Y.
Str	Markham, Geo. C....	309	249	141x28	1883	Thomas Munroe, et al., Muskegon, Mich.
Str	Marquette	1343	1117	235x35	1881	J. C. Gilchrist, Cleveland, O. Lost.
Str	Marquette and Bessemer No. 1	1732	998	241x22	1903	Buffalo Dry Dock Co., Buffalo, N. Y.
Sch	Mars	131	105	95x17	1880	Albert Shaw, Buffalo, N. Y.
Sch	Mars	234	223	122x27	1872	C. Christanson, Milwaukee, Wis.
Str	†Mars	3748	2943	346x48	1901	J. C. Gilchrist, Cleveland, O.
Str	Mars	132	117	.....	1902	La Crosse, Wis.
Bge	†Marsala	5039	4667	436x50	1900	Pittsburg Steamship Co., Cleveland, O.
Sch	Marsh, Geo. A....	202	192	135x26	1882	A. Thomsen, Chicago, Ill.
Str	†Marshall, Albert N..	1640	987	241x41	1903	Great Lakes & St. Lawrence Trans. Co., A. B. Wolvin, Mngr., Duluth, Minn.
Sch	Marshall, Charlie ..	221	192	122x27	1881	J. D. Marshall, Chicago, Ill.
Str	Marshall, J. D....	331	428	154x33	1891	A. C. Wanwig, 79 Evergreen ave., Chicago, Ill.
Str	Marshall, Maggie ..	585	279	150x30	1893	Louis Sands, Manistee, Mich.
Str	Marshall, Samuel ..	755	649	198x34	1888	Central Canada Coal Co., Brockville, Ont.
Str	Marston, J. H....	117	75	128x24	1882	J. H. Marston, Appleton, Wis.
Tug	Marstel Mae	98	26	71x14	1895	N. E. Topel, Pensaukee, Wis.
Bge	†Martha	3256	3121	352x44	1896	Pittsburg Steamship Co., Cleveland, O.
Sch	Martin, D. R....	326	309	137x30	1857	L. S. Sullivan, Toledo, O.

Tug	Martin, James H..	36	18	1869	Morris L. Cram. Charlevoix, Mich.
Sch	Martin, Jessie	42	40	68x17	1881 C. P. Christiansen, Manitowoc, Wis.
Tug	Martin, John	20	12	57x13	1871 Lake Sup. Con. & D. Co., Board of Trade, Duluth, Minn.
Str	Martin, Jas. T.	47	32	56x15	1896 Great Lakes Towing Co., Cleveland, O.
Sch	Martin, Maria	568	540	175x32	1866 J. Dorrington, 62 Spruce st., Detroit.
Bge	Martin, Richard	299	278	143x28	1876 Jos. H. Berry, Detroit, Mich.
Str	Martin, S. K.	302	240	152x28	1883 M. Sicken, Marine City, Mich.
Str	†Maruba	2311	1836	290x40	1890 Pittsburg Steamship Co., Cleveland, O.
Sch	Marvin, Seldin E.	618	587	174x33	1881 Hines Lumber Co., Chicago, Ill.
Str	Mary	218	134	137x30	1892 Henry Houghton, Detroit, Mich.
Str	Mary	50	25	71x13	1876 Geo. B. Thompson, Boyne City, Mich.
Sch	Mary	18	17	53x13	1872 Rosa Clafin, Little Sturgeon, Wis.
Sch	Mary	17	16	43x12	1881 J. H. Gillingham, Bay Port, Mich.
Str	Mary	360	245	124x26	1882 Indiana Trans. Co., 2 Rush st., Chicago, Ill.
Bge	Mary	73	73	84x16	1898 Geo. C. Boldt, Alexandria Bay, N. Y.
Sch	Mary	174	118	90x20	1893 John W. Hatch, Ogdensburg, N. Y.
Sch	Mary Ann	18	18	44x14	1885 Daniel Boyle, St. James, Mich.
Tug	Mary Bell	38	24	58x11	1870 Jay Hursley, Sault Ste. Marie, Mich.
Gap	Mary E.	39	24	56x12	1902 D. Jack, Fond du Lac, Wis.
Str	Mary H.	208	165	116x29	1886 John Homegardner, Sandusky, O.
Sch	Mary L.	90	30	62x16	1895 Leonard Fitch, Holland, Mich.
Str	†Maryland	2419	1892	316x42	D. Vance & Co. (I.-O. T. Co.), Milwaukee, Wis.
Tug	Mary & Norman	17	11	55x14	1891 Jerry Driscoll, Erie, Pa.
Str	Marvette	44	41	59x20	1894 Charles Metzner, Kewaunee, Wis.
Str	†Masaba	2431	1992	292x40	Pittsburg Steamship Co., Cleveland, O.
Str	Mascot	13	9	42x 9	1902 X. M. Selin, Milwaukee, Wis.
Str	†Mascotte	162	75	103x29	1885 Robt D. Perry, Sault Ste. Marie, Mich.
Sch	Mason, L. M.	249	237	120x28	1866 Gun Gunderson, Milwaukee, Wis.
Sch	Mason, Lottie	69	65	70x19	1880 W. H. Pratt, South Haven, Mich.
Sch	Mason, Nellie	554	527	181x33	1882 F. W. Gilchrist, Alpena, Mich.
Sch	Mason, R. P.	155	148	115x24	1867 Hans H. Pedersen, Milwaukee, Wis.
Tug	Mason, W. G.	99	54	84x20	1898 Great Lakes Towing Co., Cleveland, O.
Stb	Massaanga	119	77	92x17	1894 Erie Dock & Trans. Co., Erie, Pa.
Sch	Massasoit	842	800	189x34	1874 John J. Boland, Buffalo, N. Y.
Str	Massachusetts	1415	1041	235x37	1882 J. C. Gilchrist, Cleveland, O.
Str	Massena	89	59	94x18	1878 Frank Dana, Alexandria Bay, N. Y. Burned.

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AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Str	† Matafa	4840	3604	429x50	1899	Pittsburg Steamship Co., Cleveland, O.
Sch	Matanzas	2525	2525	324x45	1899	Jas. Davidson, W. Bay City, Mich.
Sch	Matthews, Jennie	332	316	138x26	1874	Geo. Hall Coal Co., Ogdensburg, N. Y.
Str	† Mather, Carrie	21	14	37x11	1880	A. Schront, Sheboygan, Wis.
Str	† Mather, Samuel	1713	1318	308x38	1892	Pittsburg Steamship Co., Cleveland, O.
Str	† Maroa	2311	1836	290x40	1892	Pittsburg Steamship Co., Cleveland, O.
Str	† Mauch Chunk	4499	3609	381x50	1901	Lehigh Valley Trans. Co., Buffalo, N. Y.
Str	† Mand	98	67	95x23	1899	Edward Phillips, St. Clair, Mich.
Tug	† Maud S.	45	33	68x16	1881	James Davidson, W. Bay City, Mich.
Tug	† Maud S.	33	16	58x15	1881	Lake Superior Dredging Co., Duluth, Minn.
Str	† Maunaloa	4951	4004	430x50	1899	Pittsburg Steamship Co., Cleveland, O.
Tug	† Maurice W.	....	....	48x12	....	Capt. L. E. Welch, Mackinaw, Mich.
Sch	† Maurice	647	626	200x34	1873	M. J. Lynn, Manr., Bay City, Mich.
Sly	† Mawaja	11	11	38x 9	1889	Geo. Garside, Jr., Chicago, Ill.
Tug	† Maxwell A.	67	46	80x21	1891	Great Lakes Towing Co., Cleveland, O.
Str	† Maxwell, E. G.	88	56	96x20	1893	W. A. Whitney, W. Superior, Wis.
Tug	† Maxwell, Wm.	43	21	66x17	1883	Herbert. J. Knight, Erie, Pa.
Sch	† Maxwell, A. C.	469	445	166x32	1870	W. E. Donnelly, Saginaw, Mich.
Sch	† Maxwell, E. B.	345	317	148x30	1881	Capt. Ole Hanson, Milwaukee, Wis.
Tug	† May	29	20	60x13	1871	W. H. Joslin, St. Ignace, Mich.
Sch	† May, Lettie	45	42	68x16	1874	Malinda C. Withey, Benton Harbor, Mich.
Sch	† May, Lilly	300	285	150x28	1867	Jos. H. Berry, Detroit, Mich.
Str	† Mayflower	22	15	51x12	1883	S. E. Burnham, Duluth, Minn.
Str	† Mayflower	49	33	73x15	1900	Wm. Wilkins, Oshkosh, Wis.
Tug	† Maytham	40	20	64x16	1874	James Pryor, Houghton, Mich.
Tug	† Maytham, E. C.	55	27	67x16	1885	Great Lakes Towing Co., Cleveland, O.
Str	† Maytham, Thos.	2329	1972	286x41	1892	J. C. Gilchrist, Cleveland, O.
Tug	† Maytham, Tom	39	22	63x17	1880	Great Lakes Towing Co., Cleveland, O.
Sch	† Mead, J. H.	409	388	171x29	1874	O. E. Larson, Chicago, Ill.
Str	† Meade, Spencer	17	13	36x10	1883	Daly & Hannan, Ogdensburg, N. Y.
Str	† Meosta	1776	1418	281x40	1888	J. C. Gilchrist, Cleveland, O.
Tug	† Medina	56	28	66x17	1890	Lake Superior Dredging Co., Duluth, Minn.

Sch Medora, Ada	290	137x26	1867	W. W. Shaw, Chicago, Ill.
Sch Mec, John	199	122x26	1881	Nels Olsen, Chicago, Ill.
Tug Meister, C. A.	23	11 54x13	1887	A. Obeke, Grand Haven, Mich.
Sch Melbourne	510	168x31	1880	Whitney Trans. Co., Detroit, Mich.
Tug Meldrum, H. A.	68	71x20	1899	Lake Erie Dredging Co., Buffalo, N. Y.
Sch Melitta	88	79 88x20	1881	H. Jensen, Racine, Wis.
Sch Melvina	270	133x27	1863	M. Sicken, Marine City, Mich.
Bge Menominee	129	94x32	1889	Lake Sup. Con. & D. Co., Duluth, Minn.
Sch Menominee	455	166x33	1883	Ogdensburg Coal Co., Ogdensburg, N. Y.
Tug Menominee River...	73	36 78x17	1879	A. C. Merryman, Marinette, Wis.
Str Mentor	305	118x26	1881	Wm. J. Hunkin, Cleveland, O.
Tug Mentor	29	14 54x14	1863	Calumet & Hecla M. Co., Calumet, Mich.
Tug Mentor	22	11 52x15	1882	Charles Fitz Simons, Chicago, Ill.
Bge Merchant	16	8 45x 9	1860	Amelia E. Osborne, Duluth, Minn.
Sch Merchant	66	62 79x19	1874	Nels Peterson, Manitowoc, Wis.
Str Mercur, Fred	1224	966 232x35	1882	Iroquois Iron Co., Chicago, Ill.
Str Mercury	11	11 35x11	1902	Chas. Harding, Chicago, Ill.
Str #Merida	3261	11 360x45	1893	J. C. Gilchrist, Cleveland, O.
Str Meriden	849	759 226x31	1881	Thos. M. Ryan, Buffalo, N. Y.
Str Merick, M. F.	133	77 92x24	1873	Great Lakes Towing Co., Cleveland, O.
Sch Merlin	21	20 44x14	1888	Bruno V. Nordberg, Milwaukee, Wis.
Str Merrill, J. B.	17	8 54x13	1871	John Place, Duluth, Minn.
Sch Merrill, Julia B.	200	190 125x26	1872	Val. Harms, Chicago, Ill.
Str Merrimac	1398	1202 235x37	1882	J. C. Gilchrist, Cleveland, O.
Str Messenger	48	27 78x15	1880	E. D. Carter, Erie, Pa.
Str Metropole	190	114 118x23	1883	John Stevenson, Detroit, Mich. Foundered.
Str Meyer, W. H.	94	64 89x24	1898	Wm. H. Meyer, Milwaukee, Wis.
Str Miami	228	191 131x28	1888	John Stevenson, Detroit, Mich.
C.F.#Michigan Central...	1522	999 263x45	1884	M. C. R. Co., Detroit, Mich.
Sch Middlesex	618	587 186x32	1881	Soper Lumber Co., Chicago, Ill.
Cap Midway	9	9 45x12	1901	Grand Haven, Mich.
Str Mignon	23	15 49x11	1901	C. W. Campbell, Dexter, N. Y.
Bge Mikado	287	268 142x33	1895	L. P. Smith, Cleveland, O.
Tug #Miles, Paddy	33	16 52x14	1891	C. F. Dunbar, Buffalo, N. Y.
Tug Miller, A.	34	17 64x14	1866	Great Lakes Towing Co., Cleveland, O.
Tug Miller Bros.	13	11 41x12	1900	Geo. E. Dailey, Toledo, O.
Tug Miller, Dan W.	10	8 39x13	1899	L. S. Goss, Toledo, O. Rebuilt 1901.

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AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Class.	Vessel.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	Name and Address of Owner or Manager.
Str	Miller, Louis	9	8	36x 8	1887	Eugene P. Onchie, Buffalo, N. Y.
Str	†Miller, P. P.	.....3845	2858	354x48	1903	J. E. Ball, Buffalo, N. Y.
Str	Mills, N.	.....391	305	164x29	1870	Nelson Mills, Marysville, Mich.
Str	Mills, Robert	.....1790	1522	256x40	1888	Red Star Line, Buffalo, N. Y.
Str	Milton	.....19	14	53x 9	1876	Joseph B. Ried, Ogdensburg, N. Y.
Bge	Milwaukee	.....131	131	94x32	1891	Lake Sup. Con. & D. Co., Duluth, Minn.
Tug	Milwaukee	.....52	26	64x18	1889	Conrad Niederman, Milwaukee, Wis.
Str	Milwaukee	.....327	2424	325x44	1902	Western Transit Co., Buffalo, N. Y.
Str	Milwaukee	.....11	8	.....	1903	Chicago, Ill.
Str	Minch, Philip	.....2010	1657	275x40	1888	Wm. Gerlach, Cleveland, O.
Sch	Minch, Sophia	....635	603	184x33	1873	Capt. James Sheehan, Detroit, Mich.
Str	Mina	.....17	8	47x10	1890	Robert Shaw, Chicago, Ill.
Str	†Minch, Anna C.	.....4285	3229	380x50	1903	H. Steinbrenner, Cleveland, O.
Sch	Miner, Franc	....45	43	68x17	1885	H. Thompson, Manitowoc, Wis.
Tug	Miner, J. L.	....23	11	53x13	1880	Alex. Ruelle, Jr., Detroit, Mich.
Str	Mineral City	.....57	28	70x16	1895	J. F. McCormick, Detroit, Mich.
Sch	Minerva	.....101	69	91x17	1891	Julia W. Richardson, Hartland, N. Y.
Sch	Minerva	.....222	211	125x26	1863	W. Schlosser, Milwaukee, Wis.
Sch	Mingoe	.....712	681	198x36	1893	Holland & Graves, Buffalo, N. Y.
Str	†Minneapolis	.....2029	1221	238x42	1897	R. R. Rhodes, Cleveland, O.
Sly	Minnehaha	.....9	9	30x12	1888	Frank P. Crouch, Rochester, N. Y.
Sch	Minnehaha	.....59	56	71x18	1872	H. Mickelson, N. Muskegon, Mich.
Str	Minnesota	.....1138	903	206x36	1890	James Corrigan, Cleveland, O.
Sch	Minnie	.....21	20	71x13	1881	Louis Legot, Dyckesville, Wis.
Sly	Minx	.....28	28	57x18	1889	W. W. Murray, Detroit, Mich.
Str	Mischler, C. F.	.....18	12	51x14	1893	Jacob Pfister, Ashtabula, O.
Sch	Mishicott	.....73	69	79x21	1882	A. E. Dow, Manitowoc, Wis.
Str	Mississippi	.....6	5	47x10	1895	John F. Fuller, Alexandria Bay, N. Y.
Sch	Mist	.....14	14	45x11	1877	Eugene Harlow, Sodus, N. Y.
Sch	Mistral	.....33	31	61x14	1895	D. Lawrence, Chicago, Ill.
Str	Mitchell, Alfred	....1751	1550	255x39	1900	Lakeside Steamship Co., Duluth, Minn.
Sch	Mitchell, Mary B.	....963	915	211x37	1888	W. C. Richardson, Cleveland, O.
Sch	Mitchell, Oliver	....320	260	136x25	1874	J. A. Myers, 169 Jackson st., Chicago, Ill.

Str †Mitchell, Samuel...	2277	1870	292x40	1892	W. C. Richardson, Mngr., Cleveland, O.
Sch Miztec	777	798	194x34	1890	Spence Bros., Cleveland, O.
Tug M. & M.	30	22	87x16	1890	S. D. Upham, Saugatuck, Mich. Rebuilt 1902.
C.F. †M. M. & N. No. 1..	2983	1755	328x56	1903	M. M. & N. W. Ry., Daniel Kaufman, Grand Rapids, Mich.
Str Mocking Bird	71	35	67x20	1885	Geo. F. Armstrong, Bay City, Mich. Abandoned.
Tug Mocking Bird ...	177	113	123x23	1873	James Davidson, W. Bay City, Mich.
Tug Mogul	23	13	56x13	1889	Buckeye Fish Co., Cleveland, O.
Str †Mohawk	2587	1616	292x41	1893	Western Transit Co., Buffalo, N. Y.
Str Mohawk	20	16	47x13	1883	Crangle & Co., Cleveland, O.
Bge Mohawk .....	....	....	....	....	Geo. Hall Coal Co., Ogdensburg, N. Y.
Tug Mohawk	13	6	39x11	1889	Frank Roncker, Jr., Tonowanda, N. Y.
Str Mohegan	1216	1014	225x39	1894	Holland & Graves, Buffalo, N. Y.
Tug Moiles, Annie	146	76	86x16	1867	Benj. Boutelle, Bay City, Mich.
Sly Mokahi	6	6	29x10	1888	C. V. Pope, Chicago, Ill.
Sly Mona	5	5	26x 9	1892	....., Cleveland, O.
Str Monarch	90	16	90x22	1889	Union Towing & Wreck. Co., Duluth, Minn.
Tug Monarch	146	76	88x22	1889	Great Lakes Towing Co., Cleveland, O.
Sch Monguagon	301	286	136x26	1874	T. Hurley, Board of Trade, Detroit, Mich.
Str Monitor	15	9	48x12	1882	Robert G. Goff, Grand River, O.
Tug Monitor	37	18	70x15	1862	Great Lakes Towing Co., Cleveland, O.
Tug Monk, John E.....	36	18	66x16	1887	Wm. R. Zollinger, Canton, O.
Str Monohansett	572	450	164x31	1872	Ohio Cooperage, Trans. Co., Cleveland, O.
Tug Monson, Thos.	25	12	53x14	1888	John Monson, Cleveland, O.
Str Montana	1535	1382	236x36	1872	Western Transit Co., Buffalo, N. Y.
Sch Montana	345	328	138x27	1864	N. Barkell, Bay City, Mich.
Sch Montauk	92	73	98x17	1875	L. D. Norton, Chicago, Ill.
Sch Montezuma	2722	2710	342x46	1903	James Davidson, Bay City, Mich.
Str Montegale	1273	1034	213x35	1884	Robt. Downey & Co., Oswego, N. Y.
Sch Monterey	308	293	137x26	1866	Union Towing & Wreck. Co., Duluth, Minn.
Bge Montezuma .....	....	....	....	1903	James Davidson, W. Bay City, Mich.
Sch Montgomery, Wm....	101	96	89x22	1889	E. S. Fleury & N. W. Fisk, Isle La Motte, Vt.
Sch Monticello	316	300	136x26	1870	Shannon & Garey, Saginaw, Mich.
Sch Montpelier	290	275	138x26	1866	Cecelia Rouvel, Marine City, Mich.
Str Moon, Maud	9	7	87x 9	1896	Now Fischer.
Sch Moonlight	777	738	205x33	1874	J. C. Gichrist, Cleveland, O.
Str †Moore, John W....	1961	1689	246x40	1890	Frank M. Osborne, Cleveland, O.

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Class:	Vessel.	Gross Ton- nage	Net Ton- nage	Keel Beam	Year Built	Name and Address of Owner or Manager.
Str	Moore, M. D.....	59	36	72x31	1880	Ole Olson, Oshkosh, Wis.
Str	Moore, C. W.....	383	294	124x24	1881	A. Booth & Co., Chicago, Ill.
Sch	Moore, H. D.....	143	136	103x24	1874	Gustave M. Johnson, Sheboygan, Wis.
Tug	Moore, W. H.....	10	6	45x11	1893	Wm. F. Kolbe, Lorain, O. Lost.
Sch	Moore, W. K.....	618	538	180x34	1894	Comstock & Sinclair, Duluth, Minn.
Bge	Moran, David.....	372	372	162x36	1901	Kelley Isl. Lime & T. Co., Cleveland, O.
Sch	Moravia.....	1067	1014	213x39	1888	Tonawanda I. & S. Co., N. Tonawanda, N. Y.
Sch	Morey, A. G.....	280	252	136x25	1861	H. Michelson, Chicago, Ill.
Tug	Morford, T. T.....	99	57	71x19	1896	Great Lakes Towing Co., Cleveland, O.
Str	Morgan.....	29	14	65x12	1891	Allen F. Rees, Houghton, Mich.
Tug	Morgan, C. A.....	92	1565	114x25	1896	Great Lakes Towing Co., Cleveland, O.
Str	Morley, W. B.....	1747	240x42	114x25	1891	Allen F. Rees, Houghton, Mich.
Sch	Morning Star.....	8	8	41x11	1874	Wallace & Cunningham, Detroit, Mich.
Sch	Morse, Annie F.....	32	30	61x17	1881	Fabian Willetts, Essexville, Mich.
Sch	Morse, H. & A.....	133	105	95x17	1881	Chas. O. Ingraham, So. Haven, Mich.
Sch	Morse, James W.....	132	105	95x18	1887	John A. Byrnes, Buffalo, N. Y.
Tug	Morse, Jay C.....	99	69	77x17	1867	John Gilbert, Palmyra, N. Y.
Str	†Morse, Sam'l F. B., 4936	4301	456x50	1898	Charles Hebard, Pequaming, Mich.	
Tug	Mosher.....	68	34	64x17	1890	Pittsburg Steamship Co., Cleveland, O.
Sch	Moss, Truman.....	202	181	126x27	1867	Great Lakes Towing Co., Cleveland, O.
Sch	Mott, Richard.....	267	254	147x26	1887	Gustav Meyer, Chicago, Ill. Dismantled.
Sch	Mowatt, James.....	523	497	166x33	1884	W. Mueller Co., Chicago, Ill.
Sky	Moyer, Myron W.....	13	9	30x 9	1895	J. W. Squires, Marine City, Mich.
Str	Mueller.....	699	455	172x30	1887	Wellington Moyer, Buffalo, N. Y. Abandoned.
Sch	Mueller, Minnie.....	199	189	120x26	1868	Wm. Mueller Co., Marquette Bldg., Chicago, Ill.
Sly	Mull.....	13	13	37x14	1884	Byron Kettelson, Racine, Wis.
Sch	Mullen, Jennie.....	206	195	117x26	1866	C. W. Leeming, Chicago, Ill.
Str	Mullen, Martin.....	3863	2946	416x50	1904	T. D. Smith, Charlevoix, Mich.
Str	†Muncy.....	8	8	350x46	1902	Hutchinson & Co., Cleveland, O.
Sch	Munro, Louise.....	8	8	37x11	1897	E. & W. T. Co., Anchor Line, Buffalo, N. Y.
Str	†Murphy, Simon J., 4869	9770	435x51	1900	C. Strandholm, Hessel, Mich.	
Tug	Myers Boys.....	27	18	59x14	1887	Pittsburg Steamship Co., Cleveland, O.
Str	Myles.....	1198	742	83x14	1903	Herman Myers, Buffalo, N. Y.
Tug	Myra.....	73	87	82x17	1882	Myles Trans. Co., Ltd., Niagara Falls, N. Y.
					1884	Ogdensburg C. & T. Co., Ogdensburg, N. Y.

Str	Myron	.....	676	414	186x32	1888	O. W. Blodgett, W. Bay City, Mich.
Str	Myrtie	.....	25	12	52x14	1894	Lake Erie Dredging Co., Buffalo, N. Y.
Str	Myrtle	.....	18	13	43x12	1900	Wm. S. Edwards, Sault Ste. Marie, Mich.
Sch	Mystery	.....	97	37	61x19	1901	Wm. H. Fitch, Frankfort, Mich.
Str	Mystic	.....	74	50	86x20	1867	Mrs. C. H. Strong Estate, Erie, Pa.
Tug	Mystic	.....	63	31	76x18	1871	D. E. Stevens, Duluth, Minn.
Str	Mystic	.....	14	9	55x10	1874	Lena Jurgenson, Neenah, Wis.
Sch	Mystic Star	.....	359	322	187x26	1873	Timothy Hurley, Detroit, Mich.
N							
Tug	Nahma	.....	6	5	32x 7	1898	Robert Kelley, Superior, Wis.
Str	Naiad	.....	7	5	27x 7	1900	Wm. Coley, Buffalo, N. Y. Out of com.
Gvt	Naiad	.....	17	10	65x 8	1903	W. A. Pungs, Detroit, Mich.
Sch	Nancy	.....	86	81	98x17	1868	James W. Mock, Port Kent, N. Y.
Str	Naomi	.....	1181	1020	203x35	1881	Crosby Trans. Co., Muskegon, Mich.
Ege	Napoleon	.....	423	423	133x41	1901	Duluth Dredge & Dock Co., Duluth, Minn.
Sch	Nashotah	.....	94	72	100x18	1877	M. J. Hogan, Chicago, Ill.
Sch	Nasmyth, James	.....	8422	3162	365x45	1896	Pittsburg Steamship Co., Cleveland, O.
Tug	Nau, Geo. D.	.....	74	50	82x21	1896	Great Lakes Towing Co., Cleveland, O.
Sch	Nau, Libbie	.....	266	198	129x26	1867	Thos. Williamson, Chicago, Ill.
Tug	Navagh, John	.....	19	9	46x13	1883	Wm. J. Scott, Oswego, N. Y.
Str	Navajo	.....	42	28	79x12	1896	C. M. Everest, Rochester, N. Y.
Str	Navarch	.....	26	13	70x11	1892	L. G. Fisher, Chicago, Ill.
Gvt	Navarre	.....	20	14	39x14	1901	W. J. Turner, Milwaukee, Wis.
Str	Nebraska	.....	1483	1362	267x35	1867	Name changed to Congress and rebuilt.
Str	Neff, Charles S.	.....	992	800	200x38	1901	S. Neff & Sons, Milwaukee, Wis.
Str	Neff, Sidney O.	.....	435	388	149x30	1890	Geo. Robertson, Grand Haven, Mich.
Str	Neff, Lucy	.....	946	759	225x37	1893	S. Neff & Sons, Milwaukee, Wis.
Str	Neff, M. C.	.....	276	210	137x28	1888	Milw. & Mich. Trans. Co., Milwaukee, Wis.
Sch	Negaunee	.....	640	608	195x33	1867	M. A. Bradley, Cleveland, O.
Sch	Neil, Fanny	.....	451	428	162x30	1870	Kelley Island Lime & Trans. Co., Cleveland, O.
Str	Neilson, James B.	.....	2234	1571	320x42	1892	Pittsburg Steamship Co., Cleveland, O.
Tug	Nelson, George	...	45	22	65x17	1886	Leatham & Smith, Sturgeon Bay, Wis.
Ege	Nellie	.....	7	7	37x13	1899	Wm. Slate, Alexandria Bay, N. Y.
Scy	Nellie. B.	.....	15	14	42x10	1888	Wm. Kessel, Jr., Port Huron, Mich.
Str	Nellie B.	22	11	62x11	1898	W. J. Boland, Chicago, Ill.
Sch	Nellie & Annie	37	35	67x17	1872	D. A. Lyman, Green Bay, Wis.

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AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Class.	Vessel.	Gross Ton- nage	Net Ton- nage	Keel Beam	Year Built	Name and Address of Owner or Manager.
Str	Neosho	1982	1659	266x41	1888	J. C. Gilchrist, Cleveland, O.
Str	†Neptune	80	80	102x23	1900	—, La Crosse, Wis.
Str	†Neptune	9717	2778	346x48	1901	J. C. Gilchrist, Cleveland, O.
Str	Neshoto	2255	1904	284x42	1889	J. C. Gilchrist, Cleveland, O.
Str	Nessen, J. N.	375	319	148x27	1880	John O. Nessen, Manistee, Mich.
Sch	Nester, Geo.	790	751	206x35	1887	Geo. Nester, Detroit, Mich.
Str	Nettie	11	7	47x 8	1883	W. E. Smith, Alexandria Bay, N. Y.
Sly	Neva	17	16	54x12	1884	C. T. Bailey, Chicago, Ill.
Str	Newaygo	906	697	196x37	1890	Henry McMoran, Port Huron, Mich.
Str	Newell, W. P.	15	10	39x12	1900	Bickley Bros., Sandusky, O.
Sch	Newhouse, Oscar ..	70	66	78x20	1888	Thousand Isl. Sibt. Co., Cape Vincent, N. Y.
Str	New Isl'd Wand'r ..	128	84	116x21	1876	J. A. Johnson, Manitowoc, Wis.
Str	New Westminster ..	84	20	61x16	1890	S. S. Ingelghost, Watertown, N. Y.
Sch	Newland, J. B.	157	149	111x26	1870	L. A. Nelson, Racine, Wis.
Ltr	Newman, T. F.	855	749	165x36	1902	Great Lakes Towing Co., Cleveland, O.
Str	New Orleans	1457	1169	231x38	1885	Capt. John B. Hall, et al., Buffalo, N. Y.
Str	New York	1921	1751	268x36	1879	Union Transit Co., Buffalo, N. Y.
Str	New York	294	131	161x26	1887	Thousand Island Sibt. Co., Cape Vincent, N. Y.
Scb	New York Recorder ..	121	100	95x17	1892	Jesse Clark, Buffalo, N. Y.
Scb	New York World ..	142	112	95x17	1889	Elizabeth Farrell, Buffalo, N. Y.
Str	News Boy	199	112	104x22	1889	D. J. Clow, Duluth, Minn.
Str	Nia	45	22	72x13	1889	Thos. H. O'Brien, Fond du Lac, Wis.
Str	Niagara	36	24	6x12	1899	J. W. Ratray, Erie, Pa.
Str	†Niagara	1951	1483	266x42	1897	M. H. Taylor, Erie, Pa.
Str	Niagara	276	183	130x24	1872	Frank Perry, Sault Ste. Marie, Mich.
Str	Niagara	213	149	92x22	1882	International Ferry Co., Buffalo, N. Y.
Scb	Niagara	99	71	98x17	1878	Wm. H. Wallace, Joliet, Ill.
Tug	Nichols, J. G.	111	74	106x22	1889	Walter V. Metcalfe, Cleveland, O.
Str	Nicaragua	1201	911	241x37	1894	James Davidson, W. Bay City, Mich.
Str	†Nicholas, I. W.	2624	1857	328x42	1894	Minch & Nicholas Trans. Co., Cleveland, O.
Str	Nick	9	7	38x 9	1901	N. H. Witt, Duluth, Minn.
Str	Nicol, John M.	2126	1649	263x41	1889	Union Trans. Co., Buffalo, N. Y.
Sch	Nielson, Emma L. ..	90	85	98x20	1883	David Ferris, Alpena, Mich.

Str	Nightingale	.....	56	37	76x13	1890	H. S. Johnston, Clayton, N. Y.	
Str	Niko	.....	814	658	189x35	1889	J. J. Warde, 419 Oak st., Chicago, Ill.	
Str	Nimick, Alex.	.....	1968	1632	298x40	1890	J. C. Gilchrist, Cleveland, O.	
Bge	97	.....	392	392	125x..	1902	Empire Limestone Co., Buffalo, N. Y.	
Bge	98	.....	397	387	122x30	1900	Empire Limestone Co., Buffalo, N. Y.	
Str	Nipigon	.....	626	540	191x34	1888	Whitney Trans. Co., Detroit, Mich.	
Sch	Nirvana	.....	611	580	169x34	1890	E. Hines Lumber Co., Chicago, Ill.	
Sp	No. 1	.....	55	35	60x22	1887	J. W. Candler, Detroit, Mich.	
Bge	No. 1	.....	109	109	105x22	1875	H. M. Peyton, Duluth, Minn.	
Bge	No. 1	.....	94	94	77x29	1888	Lake Sup. Cont. & Dredg. Co., Duluth, Minn.	
C. F.	No. 1	.....	1544	1463	309x44	1895	L. M. C. F. Trans. Co., Chicago, Ill.	
Sew	No. 1	.....	41	41	.....	1898	Lake Sup. Cont. & Dredg. Co., Duluth, Minn.	
Bge	No. 2	.....	263	253	81x60	1890	Napoleon Grignon, Duluth, Minn.	
Bge	No. 2	.....	85	85	77x26	1887	Lake Sup. Cont. & Dredg. Co., Duluth, Minn.	
Bge	No. 2	.....	227	227	102x32	1899	Lake Sup. Cont. & Dredg. Co., Duluth, Minn.	
C. F.	No. 2	.....	1548	1462	309x44	1895	L. M. C. F. Trans. Co., Chicago, Ill.	
Bge	No. 3	.....	88	88	101x32	1898	Lake Sup. Cont. & Dredg. Co., Duluth, Minn.	
Sp	No. 4	.....	58	37	65x22	1883	A. J. Dupius Co., Detroit, Mich.	
Bge	No. 4	.....	420	420	109x65	1887	Lake Sup. Cont. & Dredg. Co., Duluth, Minn.	
Bge	No. 4	.....	128	128	77x29	1884	Lake Sup. Cont. & Dredg. Co., Duluth, Minn.	
Sew	No. 5	.....	102	102	.....	1895	Lake Sup. Cont. & Dredg. Co., Duluth, Minn.	
Bge	No. 5	.....	94	94	77x26	1884	Lake Sup. Cont. & Dredg. Co., Duluth, Minn.	
Bge	No. 6	.....	152	152	91x33	1893	Robt. Smith, Duluth, Minn.	
Bge	No. 6	.....	43	43	71x28	1889	Lake Sup. Cont. & Dredg. Co., Duluth, Minn.	
Sew	No. 6	.....	152	152	91x32	1893	Robt. Smith, Duluth, Minn.	
Bge	No. 7	.....	98	98	105x32	1898	Lake Sup. Cont. & Dredg. Co., Duluth, Minn.	
Bge	No. 8	.....	93	93	101x32	1898	Lake Sup. Cont. & Dredg. Co., Duluth, Minn.	
Bge	No. 9	.....	34	34	70x28	1887	Lake Sup. Cont. & Dredg. Co., Duluth, Minn.	
Bge	No. 10	.....	57	57	56x20	1876	Lake Sup. Cont. & Dredg. Co., Duluth, Minn.	
Bge	No. 11	.....	50	50	63x18	1876	Lake Sup. Cont. & Dredg. Co., Duluth, Minn.	
Bge	No. 13	.....	42	42	43x16	1890	Wm. Osborn, Duluth, Minn.	
Bge	No. 14	.....	16	16	33x14	1892	Wm. Osborn, Duluth, Minn.	
Bge	No. 15	.....	63	63	68x18	1879	Lake Sup. Cont. & Dredg. Co., Duluth, Minn.	
Bge	No. 16	.....	52	52	58x18	1876	Lake Sup. Cont. & Dredg. Co., Duluth, Minn.	
Str	No. 17 M. F. D.	.....	136	92	.....	1883	Milwaukee, Wis.	
Bge	No. 17	60	60	67x18	1894	Lake Sup. Cont. & Dredg. Co., Duluth, Minn.	
Bge	No. 18	69	69	67x18	1879	Lake Sup. Cont. & Dredg. Co., Duluth, Minn.	

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Class.	Vessel.	Gross Ton- nage	Net Ton- nage	Keel Beam	Year Built	Name and Address of Owner or Manager.
Ege No. 19	77	77	68x21	1884	Lake Sup. Cent. & Dredg. Co., Duluth, Minn.
Ege No. 20	108	108	82x27	1898	Lake Sup. Cent. & Dredg. Co., Duluth, Minn.
Ege No. 21	161	161	77x27	1898	Lake Sup. Cent. & Dredg. Co., Duluth, Minn.
Ege No. 22	167	167	80x27	1898	Lake Sup. Cent. & Dredg. Co., Duluth, Minn.
Str No. 23	M. F. D.	133	90	100x24	1896	David S. Rose, Milwaukee, Wis.
Ege No. 23	204	204	115x26	1893	Lake Sup. Cent. & Dredg. Co., Duluth, Minn.
Ege No. 24	254	254	118x29	1897	Lake Sup. Cent. & Dredg. Co., Duluth, Minn.
Ege No. 25	186	186	125x29	1897	Lake Sup. Cent. & Dredg. Co., Duluth, Minn.
Ege No. 26	186	186	125x29	1897	Lake Sup. Cent. & Dredg. Co., Duluth, Minn.
Ege No. 27	199	199	123x29	1897	Lake Sup. Cent. & Dredg. Co., Duluth, Minn.
						Rebuilt 1899.
Ege No. 28	265	265	105x27	1893	Robt. Smith, Duluth, Minn. Rebuilt 1899.
Ege No. 29	264	264	104x27	1893	Robt. Smith, Duluth, Minn.
Ege No. 30	229	229	118x29	1898	Lake Sup. Cent. & Dredg. Co., Duluth, Minn.
Ege No. 31	229	229	118x29	1898	Lake Sup. Cent. & Dredg. Co., Duluth, Minn.
Ege No. 35	89	89	78x27	1883	Lake Sup. Cent. & Dredg. Co., Duluth, Minn.
Ege No. 36	89	89	78x27	1883	Lake Sup. Cent. & Dredg. Co., Duluth, Minn.
Ege No. 37	70	70	72x26	1871	Lake Sup. Cent. & Dredg. Co., Duluth, Minn.
Ege No. 38	72	72	72x21	1884	Lake Sup. Cent. & Dredg. Co., Duluth, Minn.
Ege No. 39	65	65	73x23	1892	Lake Sup. Cent. & Dredg. Co., Duluth, Minn.
Ege No. 40	185	185	84x33	1891	W. H. Nichols, Alexandria Bay, N. Y.
Str No-Komis	62	42	93x15	1901	W. H. Nichols, Alexandria Bay, N. Y.
Ege Nolan, T. L.	113	113	96x24	1895	E. L. Thompson, Detroit, Mich.
Sty Nomad	28	19	66x13	1887	A. W. Ferguson, Detroit, Mich.
Sch Noquebay	15	15	42x11	1898	C. A. Morgan, Chicago, Ill.
Sch Nordkyn	684	652	205x34	1872	M. J. Lynn, Mngr., Bay City, Mich.
Sch Noreen	23	23	50x14	1900	Emilie Redmyer, Duluth, Minn.
Sch Norma	7	7	30x11	1891	Geo. Robinson, Chicago, Ill.
Tug Norma	111	78	100x22	1884	Kelley Isl. L. & T. Co., Cleveland, O. Re. 1900.
Ltr Norman	14	7	49x12	1890	Jerry Driscoll, Erie, Pa. Formerly Sch.
		251	....	.....	1848	Thos. Bradwell, Chicago, Ill. Formerly Sch. Norman.
Sch Norman	20	19	50x13	1883	Harry Cole, Cheboygan, Mich.

34	NUMERICAL	35	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873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AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Class.	Vessel.	Gross Ton- nage	Net Ton- nage	Keel Beam	Year Built	Name and Address of Owner or Manager.
Str	Ochs, Jay	18	11	53x13	1888	Cunarus Scott, Huron, O.
Str	Oclemena	149	109	93x18	1890	Daly & Hannan, Ogdensburg, N. Y.
Str	Odd Fellow	22	13	58x13	1893	Hawley & Sharp, Elk Rapids, Mich.
Str	Oden	95	62	88x26	1890	John H. Hanson, Mngr., Duluth, Minn.
Sch	Ogarita	604	574	173x39	1864	John Connelly, Buffalo, N. Y.
Sch	Ogden, Wm. B.	298	283	139x25	1887	Wm. Christie, Detroit, Mich.
Str	Ogemaw	594	525	167x30	1881	Mich. Salvage & Wkg. Co., Detroit, Mich.
Tug	Oggel, E. C.	25	17	49x12	1874	Simon Schacht, Erie, Pa.
Str	Oglebay, E. W.	3666	3019	375x45	1896	J. C. Gilchrist, Cleveland, O.
Tug	Ogontz	65	44	79x18	1892	Sandusky Fish Co. Sandusky, O.
Bge	Ohio	224	198	132x28	1890	Kelley Isl. Lime & T. Co., Cleveland, O.
Str	Okadus	49	33	77x41	1897	Mrs. Maude A. Sherman, Port Henry, N. Y.
Str	Okoboji	15	10	64x10	1893	C. V. McMillan, Fondulac, Wis.
Slp	Olive Branch	21	20	50x13	1885	E. W. Crapo, Sackett's Harbor, N. Y.
Str	Oliver, Henry W.	4909	3617	444x50	1899	Wilson Transit Co., Cleveland, O.
Sch	Ollie Bell	10	7	50x 9	1901	St. Paul, Minn.
Sch	Olsen, Ida A.	201	191	122x27	1888	Adam W. Kunna, Alpena, Mich.
Bge	Olsen	103	103	84x23	1891	W. A. Whitney, W. Superior, Wis.
Bge	Olson	115	115	78x21	1899	A. E. Osborn, Duluth, Minn.
Scw	Olson	81	81	.....	1898	Lake Sup. Con. & D. Co., Duluth, Minn.
Str	Olympia	2065	1723	276x41	1889	J. C. Gilchrist, Cleveland, O.
Str	Omaha	1231	939	215x34	1897	F. W. Smith, Mngr, Milwaukee, Wis.
Bge	O'Moore, Rory	482	482	173x28	1897	Hughes Bros. & Bangs, Buffalo, N. Y.
Str	Onega	7	7	37x 8	1895	W. P. DeWoli, Conneaut, O.
Sch	Oneida	201	190	134x24	1857	Anton Hansen, Milwaukee, Wis.
Tug	Oneida	22	11	55x14	1872	Sylvia Harrow, Detroit, Mich.
Tug	Oneida	12	6	39x11	1871	Norbet C. Kropp, Buffalo, N. Y.
Tug	Onen, Anna F.	22	15	53x12	1886	John Beck, Buffalo, N. Y.
Sch	Oneonto	424	403	160x31	1892	H. W. McCormick, Bay City, Mich.
Tug	Onekama	33	26	57x15	1893	E. N. Emory, Old Mission, Mich.
Bge	Oni	455	437	191x21	1888	On the Coast.

Bge #110	.....1227	1167	265x36	1891	Pittsburg Steamship Co., Cleveland, O.
Bge #111	.....1227	1167	265x36	1891	
Bge #116	.....1169	1110	256x36	1891	
Bge #117	.....1310	1265	285x36	1891	
Bge #118	.....1310	1265	285x36	1891	
Bge #126	.....1128	1083	264x36	1892	
Bge #127	.....1128	1083	264x36	1892	
Bge #130	.....1310	1265	292x36	1893	
Bge #131	.....1310	1265	292x36	1893	
Bge #132	.....1310	1265	292x36	1893	
Bge #133	.....1310	1265	292x36	1893	
Bge #134	.....1310	1265	292x36	1893	
Bge #137	.....2480	2367	345x45	1896	
Str #Onoko	.....2164	1933	287x38	1892	Wm. Gerlach, Cleveland, O.
Bge Onondaga	.....	....	.....	....	Geo. Hall Coal Co., Ogdensburg, N. Y.
Sip Onward	.....24	23	48x17	1875	Henry Loewer, Rochester, N. Y.
Str Oregon	.....779	557	197x33	1882	J. A. Calbick, Chicago, Ill.
Str Orinoco	.....2226	1928	295x44	1898	James Davidson, W. Bay City, Mich.
Str Orion	.....1736	1043	282x42	1901	Green Bay Vessel Co., Green Bay, Wis.
Str #Orizaba	.....76	49	94x13	1875	D. P. Rumsey, Buffalo, N. Y.
Str #Orr, Arthur	.....2745	2117	334x41	1893	Canada-Atlantic Trans. Co., Chicago, Ill.
Str #Orr, George N.	.....2872	2280	326x42	1896	Canada-Atlantic Trans. Co., Chicago, Ill.
Str Orton, Minnie E.	.....431	410	172x31	1884	H. McMorran, Port Huron, Mich.
Sch Orton, Wm.	.....73	36	79x19	1871	Gulf Co., Chicago, Ill.
Trs Osborn	.....115	115	78x20	1899	A. E. Osborn, Duluth, Minn.
Sch #Osborne, F. M.	.....4309	3377	380x50	1902	J. C. Gilchrist, Cleveland, O.
Str Osceola	.....890	787	183x33	1892	W. H. Singer, Duluth, Minn.
Str Osceola	.....21	14	59x13	1897	Penna. Fishing Co., Erie, Pa.
Trs Oscoda	.....529	345	175x32	1878	Hines Lumber Co., Chicago, Ill.
Str O'Shanter, Tam	.....23	11	49x14	1892	Lake Erie Dredging Co., Buffalo, N. Y.
Str Oswegatchie32	22	73x13	1902	W. H. Wenborne, Alexandria Bay, N. Y.
Str Oswego115	92	93x17	1881	Geo. B. Hall, Rochester, N. Y.

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AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Class.	Vessel.	Gross Ton- nage	Net Ton- nage	Keel Beam	Year Built	Name and Address of Owner or Manager.
Str	Ochs, Jay	18	11	53x13	1888	Cunarus Scott, Huron, O.
Str	Oclemena	149	109	93x18	1890	Daly & Hannan, Ogdensburg, N. Y.
Str	Odd Fellow	22	13	58x13	1893	Hawley & Sharp, Elk Rapids, Mich.
Str	Oden	95	62	88x26	1890	John H. Hanson, Mngr., Duluth, Minn.
Sch	Ogarta	604	574	173x39	1864	John Connelly, Buffalo, N. Y.
Sch	Ogen, Wm. B.	298	283	139x25	1857	Wm. Christie, Detroit, Mich.
Str	Ogemaw	594	525	167x30	1881	Mich. Salvage & Wkg. Co., Detroit, Mich.
Tug	Oggel, E. C.	25	17	49x12	1874	Simon Schacht, Erie, Pa.
Str	Ogitebay, E. W.	3666	3019	375x45	1896	J. C. Gilchrist, Cleveland, O.
Tug	Ogontz	65	44	79x18	1892	Sandusky Fish Co., Sandusky, O.
Bge	Ohio	224	198	132x28	1890	Kelley Isl. Lime & T. Co., Cleveland, O.
Str	Okadus	49	33	77x41	1897	Mrs. Maude A. Sherman, Port Henry, N. Y.
Str	Okoboji	15	10	64x10	1893	C. V. McMillan, Fondulac, Wis.
Slp	Olive Branch	21	20	50x13	1885	E. W. Crapo, Sackett's Harbor, N. Y.
Str	Oliver, Henry W.	4909	3617	444x50	1899	Wilson Transit Co., Cleveland, O.
Str	Ollie Bell	10	7	50x 9	1901	St. Paul, Minn.
Sch	Olsen, Ida A.	201	191	122x27	1888	Adam W. Kunnna, Alpena, Mich.
Bge	Olson	103	103	84x23	1891	W. A. Whitney, W. Superior, Wis.
Bge	Olson	115	115	78x21	1899	A. E. Osborn, Duluth, Minn.
Scw	Olson	81	81	.....	1893	Lake Sup. Con. & D. Co., Duluth, Minn.
Str	Olympia	2065	1723	276x41	1889	J. C. Gilchrist, Cleveland, O.
Str	Omaha	1231	939	215x34	1897	F. W. Smith, Mngr, Milwaukee, Wis.
Bge	O Moore, Rory	482	482	173x28	1897	Hughes Bros. & Bangs, Buffalo, N. Y.
Str	Omega	7	7	37x 8	1895	W. P. DeWolf, Conneaut, O.
Sch	Oneida	201	190	134x24	1857	Anton Hansen, Milwaukee, Wis.
Tug	Oneida	22	11	55x14	1871	Sylvia Harrow, Detroit, Mich.
Tug	Oncida	12	6	39x11	1871	Norbet C. Kropp, Buffalo, N. Y.
Tug	Onen, Anna F.	22	15	53x12	1886	John Beck, Buffalo, N. Y.
Sch	Onconto	424	403	160x31	1862	H. W. McCormick, Bay City, Mich.
Tug	Onekama	33	26	57x15	1883	E. N. Emory, Old Mission, Mich.
Bge	†101	455	437	191x21	1888	On the Coast.

Bge †105	.....1295	1230	276x36	1890	} Pittsburg Steamship Co., Cleveland, O.
Bge †107	.....1295	1230	276x36	1891	
Bge †109	.....1227	1167	265x36	1891	
Bge †110	.....1227	1167	265x36	1891	
Bge †111	.....1227	1167	265x36	1891	
Bge †116	.....1169	1110	256x36	1891	
Bge †117	.....1310	1265	285x36	1891	
Bge †118	.....1310	1265	285x36	1891	
Bge †126	.....1128	1083	264x36	1892	
Bge †127	.....1128	1083	264x36	1892	
Bge †130	.....1310	1265	292x36	1893	
Bge †131	.....1310	1265	292x36	1893	
Bge †132	.....1310	1265	292x36	1893	
Bge †133	.....1310	1265	292x36	1893	
Bge †134	.....1310	1265	292x36	1893	
Bge †137	.....2480	2367	345x45	1896	
Str †Onoko	.....2164	1933	287x38	1882	Wm. Gerlach, Cleveland, O.
Bge Onondaga	.....	....	.....	....	Geo. Hall Coal Co., Ogdensburg, N. Y.
Slp Onward	.....24	23	48x17	1875	Henry Loewer, Rochester, N. Y.
Str Oregon	.....779	557	197x33	1882	J. A. Calbick, Chicago, Ill.
Str Orinoco	.....2226	1928	295x44	1898	James Davidson, W. Bay City, Mich.
Str Orion	.....1736	1043	282x42	1901	Green Bay Vessel Co., Green Bay, Wis.
Str †Orizaba	.....76	49	94x13	1875	D. P. Rumsey, Buffalo, N. Y.
Str †Orr, Arthur	.....2745	2117	334x41	1893	Canada-Atlantic Trans. Co., Chicago, Ill.
Str †Orr, George N.	.....2872	2280	326x42	1896	Canada-Atlantic Trans. Co., Chicago, Ill.
Str †Orton, Minnie E.	.....431	410	172x31	1884	H. McMorran, Port Huron, Mich.
Str †Orton, Wm.	.....73	36	79x19	1871	Gulf Co., Chicago, Ill.
Str †Osborn	.....115	115	78x20	1899	A. E. Osborn, Duluth, Minn.
Str †Osborne, F. M.	.....4309	3377	380x50	1902	J. C. Gilchrist, Cleveland, O.
Str †Osceola	.....890	787	183x33	1882	W. H. Singer, Duluth, Minn.
Str †Osceola	.....21	14	59x13	1897	Penna. Fishing Co., Erie, Pa.
Str †Oscoda	.....529	345	175x32	1878	Hines Lumber Co., Chicago, Ill.
Str †O'Shanter, Tam	.....23	11	49x14	1892	Lake Erie Dredging Co., Buffalo, N. Y.
Str †Oswegatchie32	22	73x13	1902	W. H. Wenborne, Alexandria Bay, N. Y.
Str †Oswego115	92	93x17	1881	Geo. B. Hall, Rochester N Y

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AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Str	Otego	334	228	109x25	1874	J. A. Myers, 169 Jackson st., Chicago, Ill.
Str	Otis, John	301	254	148x27	1864	Abandoned.
Str	Ottawa	94	64	106x20	1884	James Sanford, Muskegon, Mich. Foundered.
						G. W. Lewis, East Chicago, Ill. Formerly Str. A. B. Taylor.
Sch	Ottawa	163	155	115x25	1874	Wm. H. Pugh, Racine, Wis.
Str	Otter	18	15	48x12	1900	R. Allison, Cheboygan, Mich.
Sch	Our Son	720	684	182x35	1875	Gurdon Corning, Saginaw, Mich.
Str	Outwaite, J. H.	1304	1099	224x37	1886	W. C. Richardson, Cleveland, O.
Str	Outing	15	7	60x10	1892	G. T. Howard, Ogdensburg, N. Y.
Str	Outing	18	10	61x11	1892	A. E. Bonsfield, Bay City, Mich.
Bge	Outing	33	33	51x16	1892	C. G. Emery, Clayton, N. Y.
Sly	Outlaw	6	6	27x11	1899	F. D. Porter, Chicago, Ill.
Str	†Owano	747	420	200x32	1899	White Star Line, Detroit, Mich.
Str	†Owego	2611	1940	325x41	1888	Union Steamboat Line, Buffalo, N. Y.
Tug	Owen	43	21	61x16	1881	Eustace C. Bowman, Trustee, Detroit, Mich.
Str	†Owen, John	2127	1609	281x41	1889	J. E. Owens Trans. Co., Detroit, Mich.
Tug	Owen, John	328	245	136x25	1874	F. W. Gilchrist, Alpena, Mich.
Str	Owen, J. Emory	1739	1292	256x38	1888	James Corrigan, Cleveland, O.
Sch	Owen, Geo. B.	744	706	196x34	1893	Mitchell & Rowland Lbr. Co., Toledo, O.
Str	†Owen, Ira H.	1753	1497	262x39	1887	J. G. Keith, 138 Rialto, Chicago.
Sch	Owens, John	129	105	90x15	1893	Geo. B. Hall, Rochester, N. Y.
P						
Str	Pabst, Fred	2430	1929	287x42	1890	W. Division S. S. Co., Milwaukee; D. Sullivan & Co., Mngrs., Chicago, Ill.
Tug	Pacific	42	25	63x15	1886	D. E. Stevens, Duluth, Minn.
Str	Packard, Chas. B.	676	504	180x36	1887	Thos. H. Smith, Sturgeon Bay, Wis. Rebuilt 1902. Formerly Elfin Mere.
Str	Packer, Harry E.	1142	962	225x35	1882	Iroquois Iron Co., Chicago, Ill.
Str	Packer, Robert A.	921	770	209x33	1881	John A. Connelly, 3851 Wabash ave., Chicago, Ill. Partly burned.
Sch	Packard, Mary E.	101	96	96x22	1875	Calvin Pooler, Jr., Sheboygan, Wis.

Sch	Paige, S. B.	47	79x20	1863	Alex. M. Laurie, Sturgeon Bay, Wis.
Sch	Paisley	994	211x35	1893	James Davidson, W. Bay City, Mich.
Sch	Pallas	106	101x17	1873	J. Ogden Armour, Chicago, Ill.
Tug	Pallister	94	67x15	1873	L. S. Sullivan, Toledo, O. Rebuilt 1900.
Sir	Palmer, Thos. W.	2134	1622	281x41	1889 Wm. Livingstone, Jr., Detroit, Mich.
Sir	Palmer, Wm. P.	2293	1609	242x42	1900 Pittsburg Steamship Co., Cleveland, O.
Sir	Palos	11	7	57x 8	1896 Henry B. Lothrop, Detroit, Mich.
Sir	Panay	3811	2778	356x50	E. D. Carter, Erie, Pa.
Tug	Pandora	13	6	42x12	1889 Daly & Hannan, Ogdensburg, N. Y.
Tug	Pankrantz, Geo.	63	39	72x20	1882 Geo. Pankrantz, Fayetteville, N. Y.
Sir	Panther	1634	1140	247x35	1890 W. P. Rend, Chicago, Ill.
Gas	Papesch, Geo.	8	.....	1903	—, Erie, Pa.
Sir	Pappoose	15	14	44x12	1888 John T. Mott, Oswego, N. Y.
Sch	Parana	406	386	151x31	1862 Wm. Mueller Co., Chicago, Ill.
Sir	Parent, S. N.	1640	987	241x41	1903 Gt. Lakes & St. L. Trans. Co., A. B. Wolvin, Mngr., Duluth, Minn.
Sir	Parks, O. E.	392	289	134x27	1891 O. E. Parks, Michigan City, Ind.
Sch	Parker, B. W.	1476	1421	249x41	1890 J. C. Gilchrist, Cleveland, O.
Sir	Parker, A. A.	1660	1274	246x38	1884 J. C. Gilchrist, Cleveland, O. Lost.
Sir	Parmelee, J. W.	30	15	60x16	1883 Mariette O'Neil, Charlevoix, Mich.
Sir	Parnell, Chas. S.	1739	1292	256x38	1888 M. J. Cummings, Oswego, N. Y.
Tug	Parnell, Chas. S.	30	15	57x14	1881 Great Lakes Towing Co., Cleveland, O.
Tug	Parnell, Fanny	15	9	45x12	1884 Wm. Mueller Co., Chicago, Ill.
Sir	Parsons, John S.	203	138	118x21	1891 D. C. Wheeler, Chaumont, N. Y.
Tug	Partridge, Col. J. N.	15	11	36x12	1900 N. Y. State, H. Barnard, Supt., Rochester, N. Y.
Sir	Passadena	1760	1468	250x40	1889 M. A. Bradley, Cleveland, O.
Sir	Pastime	20	13	60x10	1888 T. A. Gillespie, Clayton, N. Y.
Sir	Pastime	24	17	55x 9	1898 D. C. Palmer, Berlin, Wis.
Sir	Pastime	49	29	94x16	1887 F. H. Walker, Detroit, Mich.
Sir	Pathfinder	2424	1761	340x42	1892 P. H. Walkers, Mather & Co., Cleveland, O.
Sir	Pathfinder	159	111	133x18	1896 F. W. Morgan, Chicago, Ill.
Sir	Pathfinder	88	19	69x15	1883 Lake Superior Dredging Co., Duluth, Minn.
Tug	Pauly, John H.	259	178	116x23	1880 C. W. Kotcher, Detroit, Mich.

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Class.	Vessel.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	Name and Address of Owner or Manager.
Str	Pawnee	639	475	174x32	1888	H. McMorran, Port Huron, Mich.
Sch	Pearl	21	20	48x13	1874	Neil Gallagher, Escanaba, Mich.
Sch	Pearl	31	30	65x16	1867	E. J. Fifield, Toledo, O.
Tug	Pearl	9	4	.....	.....	E. D. Carter, Erie, Pa. Abandoned.
Str	Pease, Edward S.	715	442	167x26	1873	C. P. Gilchrist & Co., Cleveland, O.
Str	Peavey, Frank H.	5002	3871	430x50	1901	Peavey S. S. Co., Duluth, Minn.
Str	Peavey, Geo. W.	4997	3861	490x50	1901	Peavey S. S. Co., Duluth, Minn.
Str	Peck, E. M.	1809	1572	252x40	1888	Calumet Trans. Co., F. W. Smith, Mgr., Milwaukee, Wis.
Tug	Peckham, W. N.	17	8	43x13	1892	F. E. Peckham, Buffalo, N. Y.
Str	Peerless	1199	912	211x39	1872	W. H. Singer, Duluth, Minn.
Tug	Peerless	76	50	76x18	1893	Great Lakes Towing Co., Cleveland, O.
Sch	Peerless	99	73	100x17	1876	W. H. Wallace, Lockport, Ill.
Sch	Pendell, Dorcas	407	389	143x30	1884	M. Sicken, Marine City, Mich.
Str	Penelope	54	35	74x13	1892	H. Lee Borden, St. Clair, Mich.
Sch	Penniman, George ..	84	80	92x20	1894	C. W. Dutcher, Sebawaing, Mich.
Sch	Pennington, B. L.	1142	1085	239x38	1889	Tonawanda I. & S. Co., N. Tonawanda, N. Y.
Str	Pennsylvania	394	377	160x35	1901	Gt. Lakes & St. Law. Trans. Co., Duluth, Minn.
Str	Penobscot	3502	2864	351x44	1895	Eddy-Shaw Transit Co., Bay City, Mich.
Sch	Penobscot	254	218	134x27	1880	Gustav T. Claussen, Milwaukee, Wis.
Sch	Pentland	827	617	192x35	1894	W. H. Loutit, Grand Haven, Mich.
C.F.	Pere Marquette No. 2443	1634	1634	338x57	1896	Pere Marquette S. S. Co., Ludington, Mich.
Str	P. Marquette No. 2	771	632	177x30	1882	} Mich. Salt Trans. Co., B. B. Barnes, Secy., Milwaukee, Wis.
Str	P. Marquette No. 3	924	678	190x32	1887	
Str	P. Marquette No. 4	941	680	186x34	1888	} Milwaukee, Wis.
Str	P. Marquette No. 5	1722	1296	226x38	1890	
Str	P. Marquette No. 16	1938	1655	327x52	1904	Pere Marquette S. S. Co., Ludington, Mich.
Str	P. Marquette No. 17	2775	1317	282x53	1895	Pere Marquette S. S. Co., Ludington, Mich.
C.F.	P. Marquette No. 17	2775	1585	338x56	1901	Pere Marquette S. S. Co., Ludington, Mich.
C.F.	P. Marquette No. 18	2909	1728	338x56	1902	Pere Marquette S. S. Co., Ludington, Mich.
Str	P. Marquette No. 19	2626	1548	338x56	1903	Pere Marquette S. S. Co., Ludington, Mich.
Str	P. Marquette No. 20	2626	1548	338x56	1903	Pere Marquette S. S. Co., Ludington, Mich.
Sis	Perew, John	20	14	14x13	1900	Joseph B. Blake, Buffalo, N. Y.

Sch	Perew, Mary E.....	337	145x29	1861	Great Lakes Towing Co., Cleveland, O.
Tug	Perfection	42	80x20	1892	E. T. Williams, Duluth, Minn.
Nas	Perlaps	13	35x10	1899	E. H. Mattis, Clayton, N. Y.
Slp	Permella	17	45x13	1882	Jno. H. Fish & Game Commission, Columbus, O.
Spr	Perry, Oliver H.....	76	74x17	1902	Pittsburg Coal Co., Cleveland, O. Rebuilt 1902.
Spr	Perry, Wm. G.....	481	162x36	1901	D. H. Persons, Buffalo, N. Y.
Tug	Persons' Sons, C.....	49	.....	1899	D. H. Persons, Buffalo, N. Y.
Spr	Peshigo	817	203x34	1869	F. B. Chesbrough, Emerson, Mich.
Sch	Peshigo	633	201x34	1889	O. W. Blodgett, Bay City, Mich.
Sch	Peterson, A. M.....	631	190x33	1874	Warde Trans. Co., 419 Oak st., Chicago, Ill.
Spr	Peterson, Louis.....	9	31x7	1896	Michael Kriegbaum, Buffalo, N. Y. Abandoned.
Spr	Petoskey	770	171x30	1888	Dunkley-Williams Co., S. Haven, Mich.
Spr	Petrel	34	52x14	1895	Henry N. Loud, Au Sable, Mich.
Sch	Petrel	78	90x23	1864	Martin Nelson, Sheboygan, Wis.
Sch	Pewaukee	228	135x26	1873	Leatham & Smith, Sturgeon Bay, Wis.
Sly	Phantom	8	38x11	1884	H. J. Conley, Green Bay, Wis.
Spr	Phenix	1294	240x38	1884	J. J. Rardon, Chicago, Ill.
Spr	Phillips, Harold B..	32	59x15	1880	Great Lakes Towing Co., Cleveland, O.
Spr	Phillips, Jesse	186	177 121x26	1868	Sarah F. Barker, Chicago, Ill. Dismantled.
Sch	Phoebe	9	48x7	1889	Chas. A. Webb, Buffalo, N. Y.
Sly	Phoenix	15	54x8	1902	Henry B. Lothrop, Detroit, Mich.
Spr	Pickands, H. S.....	625	181x32	1884	Teagan Bros., Detroit, Mich.
Spr	Pickett	39	84x13	1887	John Boyer, Duluth, Minn.
Sch	Pierce, A. C.	30	54x15	1887	E. M. Carson, Sault Ste. Marie, Mich.
Tug	Pierce, Mary E.	21	48x14	1871	Oscar Hurdett, Au Sable, Mich.
Spr	Pilgrim	299	119x23	1883	C. W. Thomson, Mngr., St. Clair, Mich.
Spr	Pilgrim	32	76x15	1876	Geo. Jepson, E. Jordan, Mich.
Sch	Pilot	9	26x12	1891	John Hendy, Sault Ste. Marie, Mich.
Sch	Pilot	22	61x10	1901	F. A. Magel, St. Louis, Mo.
Gyt	Pine Lake.....	388	137x28	1895	Charlevoix Lumber Co., Charlevoix, Mich.
Spr	Pinola	25	59x13	1894	The Standard Contracting Co., Cleveland, O.
Spr	Pinta	7	33x9	1892	S. W. Jackline, Chicago, Ill.
Sly	#Pioneer	1123	226x35	1892	Cleveland-Cliffs Iron Co., Cleveland, O.
Spr	Pioneer	88	98x19	1887	C. G. Schlatter, Saginaw, Mich.
Tug	Pioneer	18	51x10	1865	P. M. Church, Sault Ste. Marie, Mich.
Tug	Plankington, John..	1821	267x40	1889	Egan Estate, A. C. Helm, Mngr., Chicago, Ill.
Sch	Planet	499	198x33	1872	C. P. Gilchrist & Co., Cleveland, O.

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Tug	Planet	24	12	55x14	1903	Wm. Wilson, Erie, Pa.
Sch	Pleasure	489	293	128x51	1894	D. B. I. & W. F. Co., Detroit, Mich.
Sch	Plietz, Wm. F.	29	17	52x14	1902	Martin Leidheiser, Vermillion, O.
Sch	Plow Boy	114	72	77x21	1887	F. A. Bishoff, Ashland, Wis.
Sch	Plow Boy	41	38	61x16	1875	Anthony Dandron, Brest, Mich.
Sch	Plow Boy	16	16	42x12	1901	J. P. Morris, St. Ignace, Mich.
Sch	Plumb, Henry	92	46	79x18	1874	D. H. Lyon, Ogdensburg, N. Y.
Sch	Plymouth	776	739	213x35	1854	Gray Trans. Co., Cleveland, O.
Sch	Point, Gen. O. M.	5619	4144	470x50	1900	Pittsburg Steamship Co., Cleveland, O.
Sch	Point Abino	204	140	112x23	1872	S. H. Burnham, Port Huron, Mich.
Sch	Polux	118	97	95x17	1880	Thos. M. Ryan, Buffalo, N. Y.
Bge	Polynesia	3562	3243	375x46	1897	James Corrigan, Cleveland, O.
Sch	Pomeroy, S. B.	406	386	150x33	1856	Charles Weston, Mngr., N. Tonawanda, N. Y.
Sch	Pontiac	2298	1788	300x41	1889	Cleveland-Cliffs Iron Co., Cleveland, O.
Sch	Pope, E. C.	2637	2064	317x42	1891	Eddy-Shaw Transit Co., Bay City, Mich.
Bge	Portage	126	126	93x29	1888	Lake Sup. Con. & D. Co., Duluth, Minn.
Bge	Port Huron	151	151	91x30	1891	Lake Sup. Con. & D. Co., Duluth, Minn.
Sch	Portage	1608	1451	238x34	1875	Union Transit Co., Buffalo, N. Y.
Sch	Porter, J. U.	149	142	109x24	1863	J. B. Donnelly, Buffalo, N. Y.
Sch	Post Boy	11	5	36x11	1894	Geo. M. Swan, Buffalo, N. Y.
Sch	Post Boy	94	64	78x21	1888	Fred K. Colby, Holland, Mich.
Tug	Potawatomie	18	11	48x11	1871	Geo. H. Waters, Jr., Frankfort, Mich.
Sch	Potter, Agnes L.	279	265	133x27	1870	Mrs. Rose Hubbard, Buffalo, N. Y.
Tug	Potter, Geo. R.	133	...	.....	1887	Buffalo Fire Dept., Buffalo, N. Y.
Sch	Powell, L. G.	143	121	105x37	1903	The Fishback Plaster Co., Toledo, O.
Sch	Prairie	7	7	36x 9	1899	C. H. Thorne, Chicago, Ill.
Sch	Pratt, Pascal P.	1927	1642	272x40	1888	Lake Erie Transp. Co., Cleveland, O.
Sch	Prentice, James H.	535	398	167x32	1885	Soper Lumber Co., Chicago, Ill.
Sch	Presley, George	2164	1830	265x41	1889	Mona Trans. Co., Cleveland, O.
Sch	Presque Isle	4578	3570	406x50	1898	Pr. Isle Trans. Co. (Cleve. Cliffs) Cleveland, O.
Sch	Presto	22	15	72x 9	1897	Lloyd L. Smith, care Waldorf-Astoria Hotel, New York.
Sch	Pretoria	2790	2715	388x44	1900	Jas. Davidson, W. Bay City, Mich.

Str	Princess	.....	14	9	41x12	1890	J. G. Burey, Oshkosh, Wis.
Str	Princeton	.....	5125	3820	454x50	1900	Pittsburg Steamship Co., Cleveland, O.
Tug	Prindville, R.	.....	24	12	60x13	1863	J. Everett, Oak Park, Ill.
Str	Pringle, John C.	.....	474	339	173x30	1880	Olga Trans. Co., E. G. Riesterer, Mngr., Tonawanda, N. Y.
Scy	Priscilla	.....	75	71	85x22	1885	Geo. H. Worthington, Cleveland, O.
Tug	Proctor, Wm. L.	.....	117	58	104x20	1883	Geo. Hall Coal Co., Ogdensburg, N. Y.
Tug	Prodigy	.....	80	54	82x21	1897	Great Lakes Towing Co., Cleveland, O.
Str	Progress	.....	1596	1309	255x37	1880	James Corrigan, Cleveland, O.
Str	Promise	.....	473	295	119x38	1892	D. B. I. & W. F. Co., Detroit, Mich.
Slp	Prospect	.....	10	10	29x11	1896	F. A. Thomas, Grand Rapids, Mich.
Tug	Protection	.....	60	30	77x15	1873	Great Lakes Towing Co., Cleveland, O.
Str	Protection	.....	91	72	76x22	1888	Frank L. Roth, Port Clinton, O.
Bge	Protective Policy	..	339	339	119x28	1896	H. T. Dunbar, Buffalo, N. Y.
Stp	Pryor, Ethel J.	.....	18	9	45x12	1890	James Pryor, Houghton, Mich.
Sty	Pryun	.....	56	38	88x16	1900	Addie W. Chesebrough, Bay City, Mich.
Str	Pueblo	.....	1349	1054	225x36	1891	F. W. Smith, Mngr., Milwaukee, Wis.
Tug	Pullar, Jim	.....	39	19	61x15	1894	J. A. Jacobs, Washburn, Wis.
Tug	Pup	.....	13	6	45x11	1884	R. T. Rogers, Saugatuck, Mich.
Tug	Puritan	.....	20	10	59x13	1892	Fred L. Masters, Erie, Pa.
Str	Puritan	.....	1547	5	70x19	1894	David D. Hazen, Buffalo, N. Y.
Str	Puritan	.....	1547	1052	233x40	1901	Graham & Morton Trans. Co., Chicago, Ill.
Scy	Puritana	.....	23	15	58x14	1900	S. O. Richardson, Toledo, O.

Q

Sc ^h	Quayle, Thomas	.....	722	650	182x32	1872	M. A. Bradley, Cleveland, O. Rebuilt 1902.
Sc ^b	Queen	.....	135	108	33x17	1889	Wm. J. Warwick, Buffalo, N. Y.
Sc ^b	Queen	.....	9	3	37x 9	1901	Arthur Strebe, Calumetville, Wis.
Yt	Queen	.....	29	19	50x14	1897	Geo. A. Boldt, Alexandria Bay, N. Y.
Tug	Queen Anne	.....	14	9	44x 9	1895	Jas. Stokan, Cheboygan, Mich.
Str	Queen of the West..	.....	876	538	215x32	1881	Hutchinson & Co., Cleveland, O. Lost.
Str	Queen City	3979	3198	401x48	1896	Pittsburg Steamship Co., Cleveland, O.
Sc ^h	Queen of the Lake..	83	52	65x16	1901	————, St. Paul, Minn.

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CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Sch	Quickstep	282	268	140x25	1874	Oley Groh, Sheboygan, Wis.
Tug	Quickstep	10	5	41x5	1869	John J. Sullivan, Detroit, Mich.
Tug	Quinn, Jas. A.....	42	21	62x15	1881	Great Lakes Towing Co., Cleveland, O.
R						
Tug	Raber, Violet H....	50	25	81x16	1891	Lake Sup. Con. & D. Co., Board of Trade, Duluth, Minn.
Sch	Racine	534	507	194x30	1867	Alex. Hitchcock, Pt. Clinton, O.
Sch	Raesser, Lydia E....	131	125	106x22	1847	Oley Groh, Sheboygan, Wis.
Tug	Rainbow	15	7	46x12	1894	Simon Schacht, Erie, Pa.
Str	Raleigh	1205	1104	227x34	1871	Henry Wineman, Jr., Detroit, Mich.
Tug	Ralph	42	21	60x15	1874	F. W. Gilchrist, Alpena, Mich.
Str	Ralph, P. J.	964	658	211x37	1889	Calbick Trans. Co., Chicago, Ill.
Sch	Ralston, Jane	260	247	137x26	1866	F. M. Hubbard, Marine City, Mich.
Str	†Ramapo	3314	2499	319x44	1896	Union Steamboat Line, Buffalo, N. Y. Rebuilt 1903.
Sch	Rambler	26	26	53x15	1881	Louise Legot, Red River, Wis.
Sly	Rambler	13	12	37x14	1880	C. H. Batchelor, Chicago, Ill. Dismantled.
Bge	Rambler	193	193	110x25	1887	Henry P. Burgard, Buffalo, N. Y.
Str	†Ramona	57	28	95x13	1886	Thousand Island Sbt. Co., Cape Vincent, N. Y.
Str	Rand	191	147	119x25	1886	J. C. Miller, Marine City, Mich.
Str	Ranney, Rufus P..	1627	1233	247x36	1881	M. A. Bradley, Cleveland, O. Rebuilt 1902.
Sch	Ransom, Harvey	28	27	59x16	1887	Erick Lunde, Washington Island, Wis.
Str	Rappahannock	2350	1911	308x42	1895	James Davidson, W. Bay City, Mich.
Str	Raser, George B....	554	401	169x36	1896	W. H. Havens, Ashtabula, O. Rebuilt 1901.
Str	†Ravenscraig	2280	1939	243x43	1900	Ravenscraig Transit Co., R. J. Dunham, Chicago, Ill.
Tug	Rawson, L. Q.	14	7	52x13	1866	A. B. Dahmer, Charlevoix, Mich.
Sch	Rawson, Levi	361	343	144x30	1861	M. Sicken, Mngr., Marine City, Mich.
Str	Ray, Lulu M.	27	17	56x12	1888	Chas. R. Maples, Duluth, Minn.
Sch	Raynor, Wm.	227	215	120x25	1862	Carkin, Stickney & Cram, Detroit, Mich. Abandoned.
P						
		42	21	61x14	1892	H. Van Ellis, Port Washington, Wis.

Str	Recor, E. P.	368	232	123x30	1902	E. C. Recor, St. Clair, Mich.
Tug	†Record	59	30	68x17	1884	Great Lakes Towing Co., Cleveland, O.
Sch	Red Cloud	8	8	47x11	1875	Michael Chambers, St. Ignace, Mich.
Sch	Redfern, C. E.	680	646	181x35	1890	John Jenkins, Mgr., Marine City, Mich.
Sty	Redfield	10	7	31x11	1895	W. O. Jones, Oshkosh, Wis.
Sch	Redington, Nellie.	816	775	205x33	1872	John Connelly, Buffalo, N. Y.
Sch	Red, White & Blue	38	36	70x16	1887	F. Wallace, Au Gres, Mich.
Str	†Red, J. H.	5598	4125	225x39	1903	Provident S. S. Co., A. B. Wolvin, Mngtr., Duluth, Minn.
Str	†Rees, W. D.	3760	2992	396x45	1896	Wilson Transit Co., Cleveland, O.
Sch	Reid, Conrad	288	274	132x29	1881	Wm. J. Hunkin, Cleveland, O.
Stp	Reindeer	498	325	168x27	1881	Gd. Island Steamboat Co., St. Albans, Vt.
Str	†Reis, Wm. E.	4748	3154	416x50	1899	Mitchell & Co., Cleveland, O.
Str	Reliable	97	44	91x22	1880	John S. Quin, Detroit, Mich.
Str	Relief	34	20	71x16	1871	H. B. Herr, Chicago, Ill.
Dge	Rembha	159	151	.....	1891	Mary E. Hingston, Buffalo, N. Y.
Sty	Remba	58	34	74x15	1886	Jas. D. Lynch, Chicago, Ill.
Str	Rend, Wm. P.	2073	1657	287x40	1888	W. P. Rend, Chicago, Ill.
Str	†Rensselaer	5124	3827	454x50	1900	Pittsburg Steamship Co., Cleveland, O.
Str	†Republic	2316	1877	291x40	1890	Republic Iron Co., Perry-Payne Bldg., Cleveland, O.
Tug	Rescue	37	18	60x15	1885	Daly & Haman, Ogdenburg, N. Y.
Sly	Restless	7	7	31x12	1889	..... Cleveland, O.
Sch	Result	11	11	37x12	1896	Henry Root, Cheboygan, Mich.
Yawl	Result	17	17	48x16	1898	Name changed to Truth.
Sch	†Resumption	293	278	143x29	1879	R. Knox, Ford River, Wis.
Sch	†Reynolds, S. C.	1895	1604	255x40	1890	Lake Erie Trans. Co., Toledo, O.
Str	Rhoccan	16	12	57x12	1895	Maud S. Williams, South Haven, Mich.
Str	Rhoda	13	12	42x11	1878	S. H. Hemans, Sacket Harbor, N. Y.
Sch	Rhoda Emily	570	416	166x32	1884	Saginaw Bay Trans. Co., Cleveland, O.
Sch	Rhodes, D. P.	937	891	217x35	1871	M. A. Bradley, Cleveland, O.
Sch	Rhodes, Robert R.	1576	1286	246x40	1887	J. C. Gilchrist, Cleveland, O.
Str	†Rhodes, W. Castle.	2176	1340	242x42	1900	R. R. Rhodes, Cleveland, O.
Str	Rice, E. E.	38	20	61x15	1888	Jos. Dewhurst, Huron, O.
Str	Rice, Owen	16	14	.....	1903	Herbert J. Knight, Erie, Pa.
Str	Richard B.	63	83	75x17	1901	Fred Cleaver, Port Clinton, O.
Str	Richards, Alice	278	185	147x27	1867	Pittsburg Coal Co., Cleveland, O.

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Class.	Vessel.	Gross Ton- nage	Net Ton- nage	Keel Beam	Year Built	Name and Address of Owner or Manager.
Sch	Richards, May	530	511	161x27	1880	Hutchinson & Co., Cleveland, O.
Str	Richards, Rube	815	594	175x33	1881	Hutchinson & Co., Cleveland, O.
Tug	Richards, Wm.	19	9	44x12	1873	David M. Wilson, Montague, Mich.
Str	†Richardson, W. C.	3818	2841	354x48	1902	W. C. Richardson, Cleveland, O.
Str	Richardson, W. W.	22	13	47x13	1884	John Shea, Duluth, Minn.
Sch	Richmond, H. A.	208	198	120x25	1861	Alex. Anderson, Chicago, Ill.
Str	†Ridgemont	66	44	84x14	1902	D. C. Whitney, Detroit, Mich.
Str	Rietz, Chas.	245	168	127x26	1872	John O. Nessen & Co., Manistee, Mich.
Str	Ringleader	96	89	108x18	1889	A. A. Holmes, Redwood, N. Y.
Tug	Riter, Chas. M.	32	16	54x16	1876	Lake Sup. Con. & D. Co., Board of Trade, Duluth, Minn.
Slp	Rival	10	10	41x13	1897	C. G. Emery, Clayton, N. Y.
Tug	River Queen	82	41	82x17	1866	W. D. Hitchcock, Detour, Mich.
Str	Riverside	124	90	84x19	1892	F. Dana, Alexandria Bay, N. Y.
Slp	Roann	39	39	70x10	1899	—, La Crosse, Wis.
Tug	Robertson, D.	37	23	62x15	1884	James Pryor, Houghton, Mich.
Sch	Roberts, E. C.	273	261	138x31	1856	F. L. Robertson, St. Clair, Mich.
Sch	Robinson, Eva S.	357	339	158x30	1871	A. F. Price, Fremont, O.
Sch	Rob Roy	97	92	98x22	1868	Emanuel Hansen, North Muskegon, Mich.
Tug	Rob-Roy	14	7	48x12	1880	G. E. Patterson, Indian River Mich.
Str	Roby, George W.	1843	1470	281x41	1889	W. H. Becker, Cleveland, O.
Str	Rochester	2220	2046	266x40	1880	Union Transit Co., Buffalo, N. Y.
Str	†Rockefeller, Frank.	2759	2013	366x45	1896	Pittsburg Steamship Co., Cleveland, O.
Tug	†Rocket	39	27	62x15	1901	Wm. Tallman, Erie, Pa.
Sch	†Roebling, John A.	4693	4447	436x50	1898	Pittsburg Steamship Co., Cleveland, O.
Sch	Rogers, Dan.	324	308	180x28	1883	W. H. Gilbert, Saginaw, Mich. Abandoned.
Tug	Rogers, George	64	33	77x18	1889	J. A. Moore, Dollar Bay, Wis.
Tug	Rollar, William	28	14	56x15	1882	W. A. McGillis & Co., Cleveland, O.
Str	Roma	15	10	57x13	1900	Lewis Streuber, Erie, Pa.
Str	†Roman	2348	1875	296x40	1891	Pittsburg Steamship Co., Cleveland, O.
Str	Rome	1847	1721	265x36	1870	Western Transit Co., Buffalo, N. Y.
Sch	Romuldus	9	9	33x10	1887	Remmer Ehlers, No. Muskegon, Mich.
Tug	Rooney, Wm. E.	11	5	40x12	1873	L. S. Sullivan, Toledo, O. Rebuilt 1902.

Str	Root, H. A.	198	161	114x24	1886	Wm. F. T. Thompson, Duluth, Minn.
Tug	Rooth, W. A.	48	82	81x15	1871	Great Lakes Towing Co., Cleveland, O. Rebuilt 1885.
Sch	Rosa Belle	131	125	100x26	1863	N. P. Peterson, Sheboygan, Wis.
Gyt	Rosalie	70	60	79x20	1900	Geo. McKesson Brown, Skaneateles, N. Y.
Sty	Rosalie B.	18	9	61x11	1893	Holden B. White, Detroit, Mich.
Tug	Rosaline	38	19	61x16	1889	Chic. & Gt. Lakes Dredg. & Dock Co., Chicago.
Gyt	Rosamond	24	11	50x15	1899	Wm. J. Starr, Eau Claire, Wis.
Sch	Rose	23	22	58x13	1880	Jas. Born, South Haven, Mich.
Str	Rose, Fanny M. .	33	17	75x14	1893	Geo. B. Parks, Grand Haven, Mich.
Sch	Rose, May	24	23	57x16	1871	Bennie Conchev, Erin, Mich.
Sch	Rosebud	44	41	77x18	1887	S. J. Hanson, Ephraim, Wis. Rebuilt 1900.
Str	Ross, Myrtle M. .	156	108	113x20	1890	H. McMorrin, Port Huron, Mich. Rebuilt 1902.
Sch	Rough and Ready.	12	12	41x14	.....	Henry Hartnell, Bois Blanc, Mich. Rebuilt 1903.
Str	Roumania	1837	1441	273x39	1875	Charles A. Chamberlin, Detroit, Mich.
Sch	Round, W. H.	308	293	138x26	1897	John Hayward, Alexandria Bay, N. Y.
Slp	Rover	7	7	36x11	1900	Ranney Fish Co., Cleveland, O.
Str	Rowira	35	24	56x14	1903	John W. Gates, Chicago, Ill.
Sty	Roxana	99	64	97x17	1891	I. Lincoln, Alpena, Mich.
Tug	Roy, R. T.	23	15	54x14	1889	John Smith, Manistee, Mich.
Tug	Ruby	17	12	51x14	1886	Chic. & Gt. Lakes Dredg. & Dock Co., Chicago.
Tug	Rudolph, Wm.	33	16	54x14	1880	A. F. Temple, Muskegon, Mich.
Str	Rugee, John	267	209	145x23	1888	Geo. Hall Coal Co., Ogdensburg, N. Y.
Str	Rumbell, J. E.	1216	950	216x35	1883	Isaac Zess, Sault Ste. Marie, Mich.
Tug	Rumbell, J. E.	138	85	99x19	1884	F. Lee Sheldon, Erie, Pa. Abandoned.
Nas	Rung Bros.	8	5	50x 9	1890	Great Lakes Towing Co., Cleveland, O.
Tug	Runnells, D. N.	37	18	58x15	1890	Spence Bros., Cleveland, O.
Str	Runnells, H. E.	889	629	178x35	1883	Pittsburg Steamship Co., Cleveland, O.
Bge	Russell, J. Scott ..	1192	1132	253x36	1872	Lake Transit Co., J. E. Ball, Supt., Buffalo, N. Y.
Str	Russian	1501	1334	231x35	1862	L. P. & J. A. Smith Co., Cleveland, O.
Sch	Rust	305	290	137x26	1873	L. S. Sullivan, Toledo, O.
Str	Rust, David W.	884	666	201x33	1902	Geo. Moore, Buffalo, N. Y.
Str	Ruth	70	48	64x15	1882	C. E. Kremer, Chicago, Ill.
Str	Ruth	28	18	72x13	1882	C. E. Kremer, Chicago, Ill.
Str	Rutter, J. H.	1224	1180	212x35	1873	On the coast.
Sch	Ryan, Chas. C.	28	14	52x14	1881	Gus Kitzinger, Manistee, Mich.
Str	Ryerson, Carrie A.	72	44	66x17	1883	David M. Wilson, Montague, Mich.

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CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Str	Sachem	739	542	187x33	1889	Mitchell & Rowland Lumber Co., Toledo, O.
Str	Sacramento	2880	1903	308x42	1895	James Davidson, W. Bay City, Mich.
Slp	Sadie	14	13	39x11	1883	B. Carpenter, Chicago, Ill.
Gas	Sadie E.	7	7	30x12	1883	Palmer Skinner, Buffalo, N. Y.
Str	Sage, Russell	1224	1104	218x32	1881	Lake Erie Trans. Co., Toledo, O.
Sch	Sage, H. W.	848	805	203x35	1875	John Kelderhouse, Buffalo, N. Y. Foundered.
Str	Saginaw	508	430	194x28	1866	C. W. Ketcher, Detroit, Mich.
Str	Sailor Boy	162	111	91x24	1891	Geo. T. Arnold, Mackinac Island, Mich.
Str	Sainte Marie	1357	678	288x53	1893	Mackinac Trans. Co., St. Ignace, Mich.
Scy	Sallie	20	20	54x14	1899	Geo. P. Savidge, Spring Lake, Mich.
Str	Sammons, Maud ..	18	9	37x 8	1874	A. Highstone, St. Ignace, Mich.
Str	Samoa	1096	836	205x34	1880	Teagan Bros., Detroit, Mich.
Tug	Samson	181	90	124x23	1866	Frank Perry, Sault Ste. Marie, Mich.
Sch	Sands, Isabella ...	230	219	134x29	1874	Louis Sands, Manistee, Mich.
Sch	Sandusky	593	536	178x33	1873	E. B. Deuble, Tonawanda, N. Y. Rebuilt 1902.
Tug	Sandy Hook	298	168	132x32	1893	Donnelley Contracting Co., Buffalo, N. Y.
Tug	Sanford, G. D., Jr.	51	30	76x15	1882	Johanna DeGurgus, Ludington, Mich.
Str	Sanilac	310	209	161x27	1867	Geo. H. Flood, Chicago, Ill.
Str	Santa Maria	982	790	203x37	1893	Name changed to L. Edward Hines.
Slp	Santa Maria	7	7	30x12	1893	C. S. Osborn, Sault Ste. Marie, Mich.
Sch	Santiago	2600	2525	324x45	1899	Pickands, Mather & Co., Agts., Cleveland, O.
Sty	Sapho	45	13	76x15	1897	M. J. Steffens, Chicago.
Str	Sapphire	120	60	118x19	1888	J. J. Albright, Buffalo, N. Y.
Str	Sappho	223	153	106x31	1883	D., B. I. & W. Ferry Co., Detroit, Mich.
Str	Saranac	2669	1939	290x40	1890	Lehigh Valley Trans. Co., Buffalo, N. Y.
Slp	Saranac	7	5	44x 9	1890	Champlain Trans. Co., Burlington, Vt.
Tug	Sardinia	35	13	61x17	1903	Jas. Davidson, W. Bay City, Mich.
Sty	Satellite	27	14	77x12	1887	Theo. M. Leonard, Rouse Point, N. Y.
Tug	Satisfaction	47	23	64x16	1894	Oley Groh, Sheboygan, Wis.
Str	Saturn	3717	2772	346x48	1901	J. C. Gilchrist, Cleveland, O.
Str	Sauber, William F.	2053	1708	291x41	1891	W. H. Becker, Cleveland, O. Lost.

Str	Saugatuck	.....	228	147	110x22	1887	Wallace B. Griffin, Saugatuck, Mich.
Tug	Saugatuck	.....	88	77	84x17	1875	John P. Nagle, Toledo, O.
Str	†Saunders, E. N.	.....	4305	3366	380x50	1902	J. C. Gilchrist, Cleveland, O.
Sch	Saveland	.....	689	654	194x33	1873	Adam Hartman, Tonawanda, N. Y.
Tug	Savidge, Hunter	.....	20	13	50x13	1866	Louis Sands, Manistee, Mich.
Str	Sawyer, Philetus	.....	449	308	152x31	1884	South Side Lumber Co., Chicago, Ill.
Str	Sawyer, W. H.	.....	746	581	201x37	1890	John Jenkins, Mngr., Marine City, Mich.
Str	†Saxona	.....	2348	1875	296x40	1890	Pittsburg Steamship Co., Cleveland, O.
Str	†Saxonia	.....	4716	3441	416x50	1903	G. A. Tomlinson, Duluth, Minn.
Tug	Say When	.....	87	43	122x14	1888	W. J. White, West Cleveland, O.
Tug	Schaefer, Phillip G.	.....	29	20	64x14	1903	Chas. J. Day, Buffalo, N. Y.
Tug	†Schenck, S. C.	.....	126	63	90x21	1890	Great Lakes Towing Co., Cleveland, O.
Str	Schlesinger, Ferd.	.....	2607	2081	305x43	1891	Wisconsin S. S. Co., D. Vance, Mngr., Milwaukee, Wis.
Sch	Schlitz Globe	.....	20	15	34x10	1896	M. C. Phillips, Oshkosh, Wis.
Str	Schoolcraft	.....	745	595	180x34	1884	Geo. Nester, Detroit, Mich.
Str	Schroeder, John	.....	372	267	154x29	1890	Gus Kitzinger, Manistee, Mich.
Str	†Schuck, R. E.	.....	4713	3384	416x50	1903	J. C. Gilchrist, Cleveland, O.
Str	Schuck, R. E.	.....	2122	1534	265x41	1890	J. C. Gilchrist, Cleveland, O.
Sch	Schuette, John	.....	269	256	137x26	1875	L. S. Sullivan, Toledo, O.
Tug	Schultz, L. A.	.....	31	15	58x15	1882	F. Schramm, Milwaukee, Wis.
Str	†Schuykill	.....	2205	1819	274x40	1892	F. & W. T. Co., Anchor Line, Buffalo, N. Y.
Sly	Scorpion	.....	14	14	39x13	1894	Chas. F. Shank, Erie, Pa.
Grt	Scorpion	.....	10	9	35x12	1891	R. H. Parkinson, Chicago, Ill.
Sch	Scotia	.....	903	858	210x34	1873	Gray Trans. Co., Cleveland, O.
Str	Scott, J. D.	.....	87	76	86x17	1894	J. H. Scott, Rochester, N. Y.
Str	Scott, Thomas R.	.....	268	212	129x28	1887	J. E. Mills, Port Huron, Mich.
Str	Scott, Mary	.....	25	14	50x15	1892	Chequamegon Bay Trans. Co., Ashland, Wis.
Tug	Scott, W. L.	.....	54	27	67x17	1890	Great Lakes Towing Co., Cleveland, O.
Tug	Scoville, E.	.....	102	97	90x24	1861	Mrs. Lucy Rath, Ludington, Mich.
Sch	†Scranton	.....	2015	1595	260x39	1888	Lake Transit Co., Buffalo, N. Y.
Str	†Scranton, Walter	.....	4803	3294	416x50	1901	Mitchell & Co., Cleveland, O.
Str	Sea Bird	.....	21	13	50x11	1900	Grand Haven, Mich.
Str	Sea Flower	.....	7	7	30x11	1896	John Weberg, Marinette, Wis.
Str	Sea Foam	.....	40	38	61x17	1878	Wm. Gilbert, Sacket Harbor, N. Y.
Sch	Sea Fox	15	10	46x13	1893	John Manson, Cleveland, O.
Str	Sea Fox	74	37	101x16	1895	Alfred E. Brush, Detroit, Mich.

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Sch	Seaman	181	172	120x25	1848	M. O. Parker, Milwaukee, Wis.
Str	Search Light	95	80	94x19	1884	O. E. Wilbur, Charlevoix, Mich.
Str	Search Light	9	6	40x10	1899	Wm. F. Benson, Bay City, Mich.
Str	Seattle	498	400	160x36	1892	H. N. Loud, Oscoda, Mich. Rebuilt. Sunk.
Tug	Sea Wing	39	27	69x16	1899	C. F. Mischler, Sandusky, O.
Str	Secor, J. K.	99	88	77x16	1884	Bense Fish Co., Port Clinton, Ohio.
Sch	Selkirk	307	293	132x25	1862	J. B. Chapman, Lorain, O.
Str	†Senator	4048	3178	410x45	1896	A. McVittie, Detroit, Mich.
Sch	Senator	392	315	130x26	1863	J. W. Candler, Detroit, Mich.
Str	†Seneca	2669	1939	290x40	1889	Lehigh Valley Trans. Co., Buffalo, N. Y.
Str	Seneca Chief	24	20	51x10	1893	Wm. Schlegel, Rochester, N. Y.
Str	†Sevona	2362	1899	300x41	1890	James McBrier, Erie, Pa.
Tug	†Seymour, Geo. D. .	76	38	90x17	1875	Ogdensburg C. & T. Co., Ogdensburg, N. Y.
Str	†Seymour, R. A., Jr.	131	103	110x22	1882	F. A. Dennett, Sheboygan, Wis.
Str	†Sharpless, John ...	1615	920	241x41	1903	Great Lakes & St. Lawrence Trans. Co., A. B. Wolvin, Mngr, Duluth, Minn.
Str	†Shaughraun	45	22	60x15	1883	C. F. Dunbar, Buffalo, N. Y.
Str	†Shawn Rhue	79	54	65x17	1891	Chas. F. Dunbar, Buffalo, N. Y.
Str	†Shaw, Howard L. .	4901	3802	435x51	1900	Pittsburgh Steamship Co., Cleveland, O.
Sch	Shaw, O.	40	38	67x16	1870	Aug. Strehtow, Escanaba, Mich.
Pge	Shawmut	250	235	.....	1889	E. L. Hedstrom, Buffalo, N. Y.
Sch	Shawnee	571	543	178x33	1873	J. N. Hahn Co., Cleveland, O.
Str	She	10	8	31x 7	1888	A. A. Gifford, Buffalo, N. Y. Abandoned.
Str	Sheboygan	623	461	208x50	1869	Goodrich Trans. Co., Chicago, Ill.
Tug	Sheboygan	62	31	65x17	1886	Great Lakes Towing Co., Cleveland, O.
Tug	Shelby, Edward ...	27	13	56x15	1882	Geo. H. Breyman, Toledo, O.
Tug	Sheldon Bros.	13	11	44x13	1900	F. H. Sheldon, Erie, Pa.
Tug	Sheldon, Cora A. .	54	27	65x16	1883	C. D. Sheldon, Houghton, Mich.
Str	Sheldon, Sarah E. .	693	517	184x32	1872	M. A. Bradley, Cleveland, O.
Str	Shenandoah	2251	1880	308x53	1894	James Davidson, West Bay City, Mich.
C. F.	Shenango, No. 1. .	1941	1920	282x53	1895	Marquette, Bessemer & Dock Nav. Co., Conneaut, O.
Str	Shenango, No. 2. .	1941	1920	282x53	1895	Conneaut, O.
Tug	†Sheridan, Phil.	35	17	58x14	1889	C. F. Dunbar, Buffalo, N. Y.

Str	Sheriffs, Jim	684	561	182x32	1883	J. W. Squires, Marine City, Mich.
Str	Sherman, G. R.	92	62	75x30	1890	S. F. Mardock, Port Henry, N. Y.
Bge	Sherman, Walter A	519	493	163x32	1882	Geo. Hall Coal Co., Ogdensburg, N. Y.
Tug	Shields, M.	34	17	62x14	1870	Louis Hohmann, Chicago, Ill.
Str	Shipman, Allie E.	39	28	61x14	1892	Fred M. Mann, Milwaukee, Wis.
Str	Shores, Adella	734	566	195x34	1894	S. Neff & Sons, Milwaukee, Wis.
Str	Shores, E. A. Jr.	519	396	176x34	1892	L. S. Saw Mill & L. Co., Cleveland, O.
Str	Shrigley, James H.	459	364	171x31	1881	J. N. Hahn Co., Cleveland, O.
Str	Siberia	1892	1461	272x39	1882	J. C. Gilchrist, Cleveland, O.
Str	Sicken, M.	212	168	128x26	1884	M. Sicken, Marine City, Mich.
Str	Sidonie	13	7	44x12	1897	Minnie Kadatu, Sheboygan, Wis.
Str	Siemens, Sir Wm.	4344	3293	413x48	1896	Pittsburg Steamship Co., Cleveland, O.
Sch	Sigel, Gen. Frantz.	316	301	136x25	1862	W. J. Curtis, Avon, O.
Str	Sigson, Geo. W.	13	8	40x11	1897	R. P. Thompson, Port Huron, Mich.
Str	Sigma	4720	100	135x21	1883	S. C. Reynolds, Toledo, O.
Str	Sili, H. S.	35	3282	416x50	1903	J. C. Gilchrist, Cleveland, O.
Tug	Sili, Henry S.	35	17	62x15	1875	Edna E. Jewell, Chicago, Ill.
Sch	Silver Chief	10	10	37x13	1898	Mary E. Beattie, Charlevoix, Mich.
Str	Silver Dollar	9	7	44x9	1886	E. P. Marvin, Jr., Lockport, N. Y.
Str	Silver King	48	33	63x13	1893	F. F. Fix, Buffalo, N. Y.
Tug	Silver Spray	38	26	54x15	1895	Henry Corgan, Copper Harbor, Mich.
Tug	Silver Spray	33	22	68x16	1898	John Lay, Sandusky, O.
Tug	Silver Spray	40	28	83x16	1889	B. M. Palmer, Erie, Pa. Rebuilt 1903.
Str	Silver Spray	95	64	109x21	1894	O. E. Wilbur, Charlevoix, Mich.
Sch	Simmons, Rouse	205	195	123x27	1868	John Leonard, Chicago, Ill.
Sch	Simpson, Lucia A.	227	215	127x28	1875	Chas. J. Sanderson, Milwaukee, Wis.
Str	Simpson, W. H.	49	27	63x19	1889	W. H. Meyers, Duluth, Minn.
Str	Sinaloa	4539	3503	416x50	1903	G. A. Tomlinson, Milwaukee, Wis.
Tug	Sioux	52	26	71x16	1883	Conrad Niederman, Milwaukee, Wis.
Str	Sir Arthur	21	14	59x12	1892	W. Habel, St. Joseph, Mich.
Str	Siren	16	10	50x12	1896	A. T. Stewart, Chicago, Ill.
Str	Sirius	22	15	62x12	1885	F. J. Hyde, Massena, N. Y. Rebuilt 1900.
Str	Sitka	1740	1227	272x40	1887	J. C. Gilchrist, Cleveland, O.
Str	Skater	92	63	80x23	1890	Chequamegon Bay Trans. Co., Ashland, Wis.
Str	Skip	10	10	37x11	1899	C. Wheeler, Alexandria Bay, N. Y.
Str	Slauson, Minnie	317	271	150x29	1867	Cape Lars Larson, Manitowoc, Wis.

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CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Str	Sloan, Alex. H.	25	12	55x10	1888	S. M. Sloan, Buffalo, N. Y.
Str	Sloan, Samuel M.	15	7	41x12	1882	Geo. A. Walker, Buffalo, N. Y.
Sch	†Smeaton, John	5049	4725	458x50	1899	Pittsburg Steamship Co., Cleveland, O.
Sch	Smith, Abram	372	354	147x30	1892	John W. Ritchie, Bay City, Mich.
Sch	Smith, Angus	580	551	182x32	1871	J. C. Gilchrist, Cleveland, O.
Tug	Smith, Andrew J.	239	171	117x23	1876	Frank Perry, Sault Ste. Marie, Mich.
Str	Smith, Annie L.	43	23	61x15	1868	Eli Jacques, Duluth, Minn.
Slp	Smith, Augusta	14	13	46x14	1867	J. Carnegie, Clayton, N. Y.
Str	†Smith, B. L.	4271	3017	380x50	1903	U. S. Trans. Co., Williamson bldg., Cleveland.
Sch	Smith, Charley J.	42	40	60x16	1879	Wm. Armstrong, Milwaukee, Wis.
Str	Smith, Chas. O.	63	39	74x17	1863	Peninsular B. & L. Co., Sault Ste. Marie, Mich.
Sch	Smith, Davis & Co.	131	110	95x17	1886	Thos. F. Gaffney, Buffalo, N. Y.
Str	Smith, Edward	700	523	194x32	1883	Guy White, N. Tonawanda, N. Y.
Str	Smith, F. E.	32	16	67x16	1891	Crangle & Co., Cleveland, O.
Sch	Smith, Gerrit	254	241	133x25	1855	Carrie A. Reed, Bay City, Mich. Abandoned.
Str	†Smith, H. W.	4662	3415	414x50	1903	U. S. Trans. Co., Williamson bldg., Cleveland.
Tug	Smith, Janie E.	50	34	72x16	1903	Frank E. Nettleton, Dunkirk, N. Y.
Tug	Smith, John	14	10	50x11	1876	Sophia M. Dahmer, Dunkirk, N. Y.
Tug	Smith, Leatham D.	46	23	70x15	1890	Great Lakes Towing Co., Cleveland, O.
Str	†Smith, L. C.	4744	4439	414x50	1902	U. S. Trans. Co., Williamson Bldg., Cleveland, O.
Tug	†Smith, L. P.	73	36	67x18	1894	L. P. & J. A. Smith, Cleveland, O.
Str	†Smith, M. C.	4281	3016	380x50	1903	U. S. Trans. Co., 1105 Williamson Bldg., Cleveland, O.
Tug	†Smith, Peter	161	109	116x18	1893	—, Cleveland, O.
Tug	Smith, Sarah	45	30	75x17	1883	Daniel Ackley, Duluth, Minn.
Str	Smith, Sydney T.	70	20	85x18	1895	Sturgeon Bay Stone Co., Sturgeon Bay, Wis.
Str	†Smith, W. L.	4319	3039	380x50	1903	U. S. Trans. Co., 1105 Williamson Bldg., Cleveland, O.
Sch	Smuggler	8	7	34x11	1899	S. Bigwood, Montague, Mich. Abandoned.
Str	Snook, T. W.	168	124	113x24	1873	Harris W. Baker, Detroit, Mich.
Str	†Sonoma	4539	3503	416x50	1903	G. A. Tomlinson, Duluth, Minn.
Str	†Sonora	24	12	58x 9	1893	Otto Scherer, Detroit, Mich.
Str	†Sonora	3914	2850	353x48	1902	G. A. Tomlinson, Duluth, Minn.

Str	Soo City	670	498	171x33	1888	A. Booth & Co., Chicago, Ill.
Str	Soper, Albert	849	268	143x23	1881	A. C. Soper Lumber Co., Chicago, Ill.
Str	Sophia	16	10	66x10	1894	H. W. Visger, Alexandria Bay, N. Y.
Str	Southern Cross ...	25	12	56x14	1894	Calvin H. Pooler, Jr., Sheboygan, Wis.
Sch	Spademan, Chas. ...	306	291	134x25	1873	M. Sicken, Marine City, Mich.
Str	†Spalding, Jessie ...	1043	856	220x40	1899	John Prindville & Son, Chicago, Ill.
Tug	†Spalpeen	29	14	46x13	1889	C. F. Dunbar, Buffalo, N. Y.
Str	Sparta	1017	819	202x34	1874	N. Mills, Marysville, Mich.
Sch	Spaulding, J. M. ...	71	68	88x22	1875	L. Merchant, Harbor Beach, Mich.
Str	Spencer, George ...	1360	1082	230x37	1884	Tonawanda I. & S. Co., N. Tonawanda, N. Y.
Tug	Spinney, Mollie ...	53	26	72x16	1869	Great Lakes Towing Co., Cleveland, O.
Tug	†Spinney, Joseph S. .	15	7	43x13	1873	John Dunseith, Toledo, O.
Str	†Spokane	2356	1974	311x38	1886	Wilson Transit Co., Cleveland, O.
Tug	†Sport	45	22	56x14	1873	W. A. Cartier, Ludington, Mich.
Tug	Sport	12	7	48x 7	1885	E. R. Swett, Lake Harbor, Mich.
Str	Sport	72	36	84x16	1881	E. P. Wilber, S. Bethlehem, Pa.
Sch	Sprague, H. C.	316	300	145x29	1880	F. W. Rider, Detroit, Mich.
Tug	†Sprinkle, J. R.	44	23	58x16	1894	Great Lakes Towing Co., Cleveland, O.
Str	Sprite	13	6	56x11	1889	M. F. Butters, Ludington, Mich.
Tug	†Sprudel	67	51	62x14	1891	John H. Werner, Lorain, O.
Str	Stabel, John A.	18	12	50x11	1895	Chas. Trautwein, Buffalo, N. Y.
Str	Stafford, Alice	849	485	202x32	1882	Chicago & Muskegon Trans. Co., Muskegon, Mich.
Str	Stafford, W. R. ...	744	546	184x34	1886	Hope Trans. Co., J. A. Francombe, Mngr., Detroit, Mich.
Sch	Stafford	199	189	112x25	1868	A. Samuelson, Milwaukee, Wis.
Sch	Stamper	288	245	137x26	1862	C. P. Carlson, Chicago, Ill.
Sch	Stanton, E. M.	152	144	115x25	1866	Empire Limestone Co., Buffalo, N. Y.
Tug	Stanwood, F. H. ..	18	10	58x14	1883	E. H. Whitney, W. Superior, Wis.
Tug	Star	9	5	38x12	1902	John Tabb, Erie, Pa.
Tug	Star of the North ..	214	203	123x24	1854	Ephraim Nelson, Cheboygan, Mich.
Sch	Stark, Alwine	10	7	36x 7	1888	M. J. Stark, Buffalo, N. Y.
Sch	Stark	49	27	65x19	1889	W. H. Meyer, Milwaukee, Wis.
Tug	Starks, C. H.	317	266	149x30	1881	Paul H. Hoeft, Rogers City, Mich.
Str	Starlight	30	28	66x17	1869	Wm. McCulloch, Port Huron, Mich.
Sch	Starlight	30	30	60x14	1897	B. C. Lindley, Chicago, Ill.
Sch	†Starucca	3398	2067	325x44	1897	Union Steamboat Line, Buffalo, N. Y.
Str						Rebuilt 1903.

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CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Ship	†State of New York	807	564	203x32	1883	D. & C. Nav. Co., Detroit, Mich.
Ship	†State of Ohio	1222	917	225x32	1880	D. & C. Nav. Co., Detroit, Mich.
Nas	Stave Island	41	17	69x13	1903	Fred H. Wells, Burlington, Vt.
Tug	Stedman, Oscar C.	68	37	73x19	1896	Great Lakes Towing Co., Cleveland, O.
Str	†Steel King	4308	3366	380x50	1902	J. C. Gilchrist, Cleveland, O.
Str	†Steinbrenner, Henry	4719	3955	420x50	1901	Henry Steinbrenner, Cleveland, O.
Shy	Stella	9	6	55x10	1899	Samuel S. Fifield, Ashland, Wis.
Shy	Stella B.	6	5	40x8	1899	Nelson Bachana, Bayfield, Wis.
Sch	Steller, Andrew	132	106	96x17	1880	J. H. Steller, Buffalo, N. Y.
Tug	Stephenson, Bob	18	9	50x13	1872	L. Quay, Cheboygan, Mich.
Str	†Stephenson, Geo.	4563	3502	407x49	1896	Pittsburg Steamship Co., Cleveland, O.
Sch	Stephenson, Isaac	461	438	163x32	1879	Ogdensburg C. & T. Co., Ogdensburg, N. Y.
Str	Stephenson, I. W.	639	501	172x35	1895	Isaac Stephenson, Marinette, Wis.
Str	Stephenson, S. M.	546	426	166x33	1880	James Sanford, Muskegon, Mich.
Tug	Stephens, Ida M.	22	12	44x11	1869	W. A. Cartier, Ludington, Mich.
Sch	Stevens, J. H.	94	89	100x21	1866	J. Olson, Sheboygan, Wis.
Tug	Stevenson, Wm.	34	23	50x14	1887	Lake Erie Dredging Co., Buffalo, N. Y.
Sch	Stewart, A. E.	593	511	172x32	1889	Chas. Weston, Mng'r., N. Tonawanda, N. Y.
Str	Stewart, Edward	3943	3049	356x50	1902	Stewart Transp. Co., Detroit, Mich.
Tug	Stewart, Rhoda	15	7	45x13	1876	Edward Ryan, Manistique, Mich.
Str	Stewart, W. W.	447	356	138x29	1878	W. E. Rice, Harbor Beach, Mich.
Ltr	Stewart, George	12	6	160x26	1880	Great Lakes Towing Co., Cleveland, O.
Tug	Stickney, Nat	77	41	40x11	1880	T. M. Wolsma, Grand Haven, Mich.
Tug	Stickney, Thos. D.	509	468	160x31	1881	A. B. Slyfield, Port Huron, Mich.
C. F.	St. Ignace	1199	600	215x52	1882	Mackinac Trans. Co., St. Ignace, Mich.
Str	St. Joseph	304	171	146x29	1867	Wm. Blodgett, Oswego, N. Y.
Sch	St. Joseph	165	137	109x25	1864	M. Sicken, Marine City, Mich.
Str	St. Lawrence	312	188	154x41	1884	T. I. S. B. Co., Cape Vincent, N. Y.
Str	St. Louis	985	795	193x31	1861	J. L. Crosthwaite, Buffalo, N. Y.
Str	†St. Paul	2029	1221	238x42	1897	R. R. Rhodes, Cleveland, O.
Str	St. Paul	760	525	203x31	1868	Name changed to Pfohl.

Tug	Stone, Ella G.....	42	21	69x15	1881	Lake Sup. Con. & D. Co., Duluth, Minn.
Str	Stone, George	1841	1501	270x40	1893	M. A. Bradley, Cleveland, O.
Tug	Stone, S. S.	68	34	64x17	1883	Great Lakes Towing Co., Cleveland, O.
Seb	Stranger	135	104	94x17	1881	G. W. Hall, Lockport, N. Y.
Str	Street, Charles A...	512	450	165x31	1888	J. B. Lozen, New Baltimore, Mich.
Tug	Stricker, Chas. P...	13	7	48x12	1892	C. A. Mattison, Erie, Pa.
Sew	Striker, Geo. H...	31	31	.....	1899	Frank F. Fix, Buffalo, N. Y.
Tug	Strohn, C. B.	25	16	49x14	1893	Chas. M. Robinson, Cheyboygan, Mich.
Str	Strong, Eliza H...	781	614	205x36	1899	Strong Transp. Co., Tonawanda, N. Y.
Sch	Sturges, Geo.	439	417	173x31	1872	J. P. Goodman, Chicago, Ill.
Tug	Success	26	13	59x14	1862	R. F. Harnan, Chicago, Ill.
Bge	Sucker	41	41	61x20	1891	Geo. R. King, Duluth, Minn.
Str	Suit, J. C.	318	241	110x23	.....	Jacob Schlosser, Chicago, Ill.
Tug	Sullivan, Hannah..	28	14	59x14	1877	Mekeleg Marski, Chicago, Ill.
Str	Sullivan, Roger C...	51	35	64x17	1903	Chic. & Gt. Lakes Dredg. & Dock Co., Chicago.
Str	†Sultana	3914	2850	362x48	1902	G. A. Tomlinson, Duluth, Minn.
Tug	Sunbeam	53	33	68x17	1891	Geo. J. Farnsworth, Nahma, Mich.
Sty	Sunbeam	51	42	64x12	1888	Warren H. Field, Sodus Point, N. Y.
Tug	Sunol	62	31	73x19	1892	Great Lakes Towing Co., Cleveland, O.
Sch	Sunrise	26	24	60x14	1888	Martin Marin, Milwaukee, Wis.
Sch	Sunshine	389	370	159x29	1884	F. W. Rider, Detroit, Mich.
Bge	Superior	137	137	94x30	1888	Lake Sup. Con. & D. Co., Duluth, Minn.
Scw	Superior	31	31	.....	1894	Lake Sup. Con. & D. Co., Duluth, Minn.
Stp	†Superior	251	167	98x29	1890	Pittsburg Steamship Co., Cleveland, O.
Tug	Superior	70	48	68x20	1896	Great Lakes Towing Co., Cleveland, O.
Bge	Superior City	4795	3693	429x50	1897	L. P. & J. A. Smith Co., Cleveland, O.
Str	Surprise	94	94	.....	1898	Pittsburg Steamship Co., Cleveland, O.
Str	Susie	17	8	45x13	1889	C. M. Howell, Toledo, O.
Scy	Susie B.	9	9	35x16	1887	Chas. F. Friend, Lorain, O.
Tug	†Susquehanna	2781	19	60x14	1892	Herbert J. Knight, Erie, Pa.
Str	Sutton, E.W., Jr....	33	32	302x40	1886	F. & W. T. Co., Anchor Line, Buffalo, N. Y.
Tug	Swain, V.	955	816	.....	1902	E. W. Sutton, Jr., Buffalo, N. Y.
Tug	Swallow	37	25	68x10	1896	J. C. Gilchrist, Cleveland, O.
Str	Swallow	15	14	44x12	1888	S. H. Slate, Clayton, N. Y.
Str	Swan	94	64	78x19	1888	Merchants Lighterage Co., Chicago, Ill.
Str	S.van	23	23	53x15	1901	G. H. Genthner, St. Joseph, Mich.

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CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Str	Swansea	19	9	77x17	1887	Albert C. Majo, Duluth, Minn.
Sch	Sweetheart	538	512	175x32	1867	E. G. Riesterer, Mngr., Olga Trans. Co., Tonawanda, N. Y.
F. B.	Swenie, Dennis J.	143	98	23x10	1886	Chicago Fire Dept., Chicago, Ill.
Sch	Sydney	129	111	96x17	1880	Thos. M. Ryan, Buffalo, N. Y.
Str	Sylvia	25	17	51x14	1902	Albert Kalmbach, Surgeon Bay, Wis.
Str	Syracuse	1917	1677	267x38	1884	Western Transit Co., Buffalo, N. Y.
Str	Syracuse	85	81	79x22	1897	John W. Mulinix, Toledo, O.
T						
Sch	Taber, Horace	268	255	138x27	1867	Antoinette Swensen, Chicago, Ill.
Str	Tacoma	1879	1609	260x38	1881	J. C. Gilchrist, Cleveland, O.
Tug	Tacoma	76	39	73x18	1894	Chas. Fitz Simons, Chicago, Ill.
Sch	Tailor	298	286	140x26	1867	Hiram H. Smith, Buffalo, N. Y.
Sch	Talcott	96	68	113x16	1876	L. A. Ferguson, Chicago, Ill.
Str	Tampa	1972	1632	291x41	1890	Henry Wineman, Jr., Detroit, Mich. Rebuilt 1899.
Tug	Tarrant, Robert	41	20	59x14	1868	Great Lakes Towing Co., Cleveland, O.
Scy	Tartar	12	12	40x12	1899	Thos. Boyle, Chicago, Ill.
Sip	Tashmoo	1344	766	302x37	1900	White Star Line, Detroit, Mich.
Sch	Tasmania	979	930	221x35	1871	Ias. Corrigan, Cleveland, O.
Str	Taylor, Helen	82	55	56x30	1894	M. O. Clucky, Pentwater, Mich.
Sch	Taylor, J. V.	199	189	125x26	1867	E. M. Ellingson, Chicago, Ill.
Tug	Taylor, J. V.	40	20	60x15	1881	Harry Nicholls, Charlevoix, Mich.
Str	†Taylor, Moses	4772	3401	416x50	1902	Mitchell & Co., Cleveland, O.
Bge	T. & C.	258	258	.....	1902	Geo. W. Miller, Buffalo, N. Y.
Str	Tecumseh	.....	.....	.....	.....	McArthur Bros. Co., Detroit, Mich.
Tug	Teed, Bob	45	22	64x18	1883	Chas. H. Hale, Ashland, Wis.
Tug	Telephone	19	9	50x12	1880	Penna. Fishing Co., Erie, Pa.
Str	Tempest	412	341	159x30	1872	Thos. S. Lester, Marine City, Mich.
Str	Tempest	369	260	137x27	1876	H. L. Wilton, Detroit, Mich.
Str	Tempest	14	7	40x11	1884	Walter S. Lloyd, Duluth, Minn.
Sch	Tempest	67	40	87x13	1892	Wm. Samse, Napoleon, O.
Sch	Tennie & Laura	56	53	73x19	1876	John Sather, Muskegon, Mich. Wrecked.

Tug	Tessler, A. A. C.	30	15	58x13	1898	Chas. Tessler, Milwaukee, Wis.
Sch	Teutonia	594	564	177x32	1881	M. Sicken, Marine City, Mich.
Sch	The Brick	53	53	75x24	1891	S. A. Markham, Traverse City, Mich.
Nyt	Thelma	26	17	57x10	1894	—, Cleveland, O.
Str	Theora	24	12	62x14	1893	John Parker, Marquette, Mich.
Str	Theresa	37	20	59x11	1901	A. Mehlmann, Oshkosh, Wis.
Str	Thetis	407	277	132x30	1892	Hiram W. Sibley, Rochester, N. Y.
Tug	The Tramp	41	25	60x15	1890	W. Hawley, Ontonagon, Mich.
Str	Thew, W. P.	206	168	132x24	1884	John Stevenson, Detroit, Mich.
Tug	Third Michigan ..	40	20	66x14	1869	Louis Sands, Manistee, Mich.
Sch	Thistle	49	28	80x14	1887	E. P. Vilas, Milwaukee, Wis.
Str	Thistle	127	84	124x25	1894	La Favre & Clark, Oshkosh, Wis.
Sch	Thomas, Robert ...	16	14	37x14	1897	Maggie Moffat, Alpena, Mich.
Sch	Thomas, Sidney G. .	3200	2912	366x44	1887	Pittsburg Steamship Co., Cleveland, O.
Str	Thompson, A. D. .	1399	1075	265x38	1891	Pittsburg Steamship Co., Cleveland, O.
Sch	Thompson, A. W. .	2279	2125	300x42	1901	D. R. Hanna, Cleveland, O.
Tug	Thompson, C. D. .	91	45	81x19	1893	Great Lakes Towing Co., Cleveland, O.
Str	Thompson, E. E. .	276	198	125x27	1875	W. N. Kelley, Traverse City, Mich.
Sch	Thompson, Essie M	50	48	65x17	1890	Hans Hanson, Egg Harbor, Wis.
Tug	Thompson, Thos. .	19	10	49x13	1873	Wilber Anderson, Marinette, Wis.
Sly	Thora	18	17	39x15	1879	Henry G. Breed, Buffalo, N. Y.
Sch	Thor Bjorn	8	8	33x11	1903	Ole Amundson, Chicago, Ill.
Str	Three Brothers	583	444	162x31	1888	J. A. White, 202 Main st., Buffalo, N. Y.
Sch	Three Brothers	349	332	136x25	1873	Julian Porter, Lorain, O.
Sch	Three Sisters	47	41	69x19	1901	James Larsen, Fish Creek, Wis.
Sch	Thyra	56	26	79x11	1887	Mrs. Alice E. Fenwick, Buffalo, N. Y.
Str	Tia, Juana	16	10	63x11	1901	W. M. Gilbert, Neenah, Wis.
Str	Tilden, S. J.	613	582	172x32	1869	Gt. L. & St. L. Trans. Co., A. B. Wolvin, Mgr. , Duluth, Minn.
Tioga	.....	2320	1684	285x38	1885	Union Steamboat Line, Buffalo, N. Y. Rebuilt 1903.
Str	†Tionesta	4329	2652	340x45	1903	Anchor Line, Detroit, Mich.
Str	†Tisdale, H. G.	81	40	94x18	1872	Lake Champlain T. Co., Whitehall, N. Y.
Str	†Titania	73	46	98x14	1875	Josiah Jewett, Buffalo, N. Y.
Sch	Tokio	1385	1316	222x38	1889	Henry Wineman, Jr., Detroit, Mich.
Sch	Toltec	767	621	191x32	1889	Marine Trans. Co., Capt. Jas. Taylor, Mgr. , Marine City, Mich.
Str	Tomlinson, G. A. .	78	53	85x20	1896	Great Lakes Towing Co., Cleveland, O.

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Bge #201	948	871	243x32	1890-1	Pittsburg Steamship Co., Cleveland, O.
Bge #202	948	871	243x32	1890-7	Pittsburg Steamship Co., Cleveland, O.
Tug Two Brothers	37	18	54x12	1891 A.	Budzisz, Milwaukee, Wis.
Sch Two Brothers	32	30	65x18	1869	R. J. Campbell, Bay City, Mich.
Sch Two Kitties	10	10	41x12	1890	John Johnson, Green Bay, Wis.
Str Two Myrtles	96	65	80x22	1899	Pickands, Mather & Co., Cleveland, O.
Bge Tycoon	287	268	142x33	1895	J. C. Gilchrist, Cleveland, O.
Sch #Tyron	2117	1862	300x41	1895	Runnels & Sinclair, Port Huron, Mich.
Sch Tyson, Emma E... 356		338	157x30	1871	

U

Str #Uarda	89	61	95x17	1881	Estate of C. D. Waterman, Detroit, Mich.
Str Uganda	2053	1708	291x41	1892	Edward Mehl, Erie, Pa.
Sch Una	44	41	63x17	1877	Frank Schroeder, Milwaukee, Wis.
Sch Unadilla	396	376	153x30	1862	E. G. Riestler, Mgr., Olga Trans. Co., Tonawanda, N. Y.
Tug Uncle	14	10	49x13	1900	Simon Schacht, Erie, Pa.
Bge Uncle Paul	67	67	80x22	1900	Adams & Duford Co., Chaumont, N. Y.
Tug Uncle Sam	24	12	60x13	1863	S. C. Schenck, Toledo, O.
Slp Uno	15	14	44x12	1882	E. G. Robbins, Clayton, N. Y.
Tug Upham, J. H., Jr... 17		10	43x12	1880	Lake Sup. Con. & D Co., Board of Trade, Duluth, Minn. Rebuilt 1888.
Sch Uranus	524	498	169x29	1873	J. M. Balfour, Marine City, Mich.
Str #Uranus	3748	2943	346x48	1901	J. C. Gilchrist, Cleveland, O.
Str #Utowano	414	266	155x27	1891	A. V. Armour, Chicago, Ill.

V

Vacuna	46	23	75x13	1896	S. R. Van Duzen, Alexandria Bay, N. Y.
Str Vail, Walter	726	641	200x35	1890	Henry J. Pauly, Milwaukee, Wis.
Str Vailma	15	7	60x 9	1896	John A. Roach, Chicago, Ill.
Str Valcour	10	7	44x 9	1890	Champlain Trans. Co., Burlington, Vt.
Str Valcour	61	48	89x14	1895	Hon. Jos. C. Sibley, Valcour, N. Y. Formerly Washita.
Valdez	12	8	36x 8	1901	—, Cleveland, O.
Str Valerie	58	29	69x17	1872	James Croze, Houghton, Mich.
Str Valiant	40	26	65x16	1894	Herbert. J. Knight, Erie, Pa.

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AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGERS.
Str	Tonawanda	31	15	59x15	1893	Great Lakes Towing Co., Cleveland, O.
Str	Topeka	1876	1111	228x36	1889	F. W. Smith, Mngr., Milwaukee, Wis.
Str	Topinabee	16	13	64x14	1899	A. L. Hamill, Petoskey, Mich.
Tug	Torrent	203	140	115x21	1869	George D. Nau, Green Bay, Wis.
Tug	Torrent, John	18	9	50x12	1875	C. T. Holland, Chicago, Ill.
Stp	Tourist	66	45	87x17	1897	E. A. Graham, St. Joseph, Mich.
Str	Tower, Chas. Jr.	1825	1543	255x40	1886	J. C. Gilchrist, Cleveland, O.
Sch	Toxtoeth	23	22	56x13	1893	Chas. A. Frederick, Indiana Harbor, Ind.
Sch	Tracy, M. & J.	137	108	95x17	1887	Thos. M. Hadcock, Buffalo, N. Y.
Sch	Trader	10	9	35x11	1886	Harriet Donovan, Suanico, Wis. Abandoned.
Sch	Trader	291	283	117x26	1903	Fox & Holloway, Buffalo, N. Y.
Str	Transfer	23	19	44x18	1898	Louis D. Rucker, Grosse Isle, Mich.
C.F. #	Transfer	1511	1060	265x75	1888	Mich. Central R. R., Detroit, Mich.
C.F. #	Transport	1594	797	254x45	1880	Mich. Central R. R., Detroit, Mich.
Str	#Trevor, John B.	1713	1318	308x38	1895	Pittsburg Steamship Co., Cleveland, O.
Str	Trio	16	8	54x12	1883	Andrew Gunderson, Sheboygan, Wis.
Tug	Triton	35	24	52x15	1899	Great Lakes Towing Co., Cleveland, O.
Slp	Trix	6	6	30x9	1895	E. A. Laughlin, Chicago, Ill.
Str	Trombly, Jose	14	10	50x12	1881	L. M. Trudell, Bay City, Mich. Rebuilt.
Tug	Troy, Henry	27	15	61x14	1891	Wm. Lahmann, Milwaukee, Wis.
Str	#Troy	3655	2966	380x45	1898	Western Transit Co., Buffalo, N. Y.
Sch	Troy	486	462	187x30	1872	Mitchell & Co., Cleveland, O.
Slp	#Truant	100	50	120x17	1892	H. H. Newberry, Detroit, Mich.
Tug	True, O. J.	16	8	43x12	1881	Herb Little, Lorain, O.
Gyt	Truh	17	17	48x16	1898	E. W. Raddler, et al., Cleveland, O.
Str	Turner, Alvin A.	309	220	135x26	1873	A. C. McLean, Saginaw, Mich.
Str	#Tuscarora	2386	1679	291x40	1890	Lehigh Valley Trans. Co., Buffalo, N. Y.
Tug	Tuthill, Fannie	27	13	60x14	1873	John P. Nagle, Toledo, O.
Str	Tuttle, H. B.	744	452	179x31	1871	C. P. Gilchrist & Co., Cleveland, O. Rebuilt 1900.
Scw	Tuttle, M.	57	54	77x19	1870	John Burrell, Detroit, Mich.
Sch	Tuxbury, A. C.	679	645	181x35	1890	John Jenkins, Mngr., Marine City, Mich.
Bge	Twentieth Century..	75	75	.....	1901	Anna L. Sloan, Buffalo, N. Y.
Cal	Twentieth Century..	904	747	904x34	1880	T. C. Gilchrist, Cleveland, O.

Bge #201	948	871	243x32	1890-7Pittsburg Steamship Co., Cleveland, O.
Bge #202	948	871	243x32	1890-7Pittsburg Steamship Co., Cleveland, O.
Tug Two Brothers	37	18	54x14	1891 A. Budzisz, Milwaukee, Wis.
Sch Two Brothers	32	30	65x18	1869 Della Smith, Sandusky, O.
Sch Two Kitties	10	10	41x12	1890 R. J. Campbell, Bay City, Mich.
Str Two Myrtles	96	65	80x22	1899 John Johnson, Green Bay, Wis.
Bge Tycoon	287	268	142x33	1895 Pickands, Mather & Co., Cleveland, O.
Sch #Tyron	2117	1862	300x41	1895 J. C. Gilchrist, Cleveland, O.
Sch Tyson, Emma E. ...	356	938	157x30	1871 Runnels & Sinclair, Port Huron, Mich.

U

Sty #Uarda	89	61	95x17	1891 Estate of C. D. Waterman, Detroit, Mich.
Str Uganda	2053	1708	291x41	1892 Edward Mehl, Erie, Pa.
Sch Una	44	41	63x17	1877 Frank Schroeder, Milwaukee, Wis.
Sch Unadilla	396	376	153x30	1862 E. G. Riesterer, Mngr., Olga Trans. Co., Tonawanda, N. Y.
Tug Uncle	14	10	49x13	1900 Simon Schacht, Erie, Pa.
Bge Uncle Paul	67	67	80x22	1900 Adams & Duford Co., Chaumont, N. Y.
Tug Uncle Sam	24	12	60x13	1863 S. C. Schenck, Toledo, O.
Sip Uno	15	14	44x12	1882 E. G. Robbins, Clayton, N. Y.
Tug Upham, J. H., Jr. ...	17	10	43x12	1880 Lake Sup. Con. & D. Co., Board of Trade, Duluth, Minn. Rebuilt 1888.
Sch Uranus	524	498	169x29	1873 J. M. Balfour, Marine City, Mich.
Str #Uranus	3748	2948	346x48	1901 J. C. Gilchrist, Cleveland, O.
Sty #Ufowano	414	266	155x27	1891 A. V. Armour, Chicago, Ill.

V

Sty Vacuna	46	23	75x13	1896 S. R. Van Duzen, Alexandria Bay, N. Y.
Str Vail, Walter	726	641	200x35	1890 Henry J. Pauly, Milwaukee, Wis.
Sly Vailima	15	7	60x 9	1896 John A. Roach, Chicago, Ill.
Stp Valcour	10	7	44x 9	1890 Champlain Trans. Co., Burlington, Vt.
Sty Valcour	61	48	89x14	Hon. Jos. C. Sibley, Valcour, N. Y. Formerly Washita.
Gas Valdez	12	8	36x 8	1901 _____, Cleveland, O.
Str Valerie	58	29	69x17	1872 James Croze, Houghton, Mich.
Tug Valiant	40	26	65x16	1894 Herbert. J. Knight, Erie, Pa.

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AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Str	Tonawanda	31	15	59x15	1893	Great Lakes Towing Co., Cleveland, O.
Str	Topeka	1376	1111	228x36	1889	F. W. Smith, Mngr., Milwaukee, Wis.
Str	Topinabee	16	13	64x14	1899	A. L. Hamill, Petoskey, Mich.
Tug	Torrent	203	140	115x21	1869	George D. Nau, Green Bay, Wis.
Tug	Torrent, John	18	9	50x12	1875	C. T. Holland, Chicago, Ill.
Stp	Tourist	66	45	87x17	1897	E. A. Graham, St. Joseph, Mich.
Str	Tower, Chas. Jr.	1825	1543	255x40	1886	J. C. Gilchrist, Cleveland, O.
Sch	Toxteth	23	22	56x13	1893	Chas. A. Frederick, Indiana Harbor, Ind.
Sch	Tracy, M. & J.	137	108	95x17	1887	Thos. M. Hadcock, Buffalo, N. Y.
Sch	Trader	10	9	35x11	1886	Harriet Donovan, Suamico, Wis. Abandoned.
Scw	Trader	291	283	117x26	1903	Fox & Holloway, Buffalo, N. Y.
Str	Transfer	23	19	44x18	1898	Louis D. Rucker, Grosse Isle, Mich.
C.F. †	Transfer	1511	1060	265x75	1888	Mich. Central R. R., Detroit, Mich.
C.F. †	Transport	1594	797	254x45	1880	Mich. Central R. R., Detroit, Mich.
Str	†Trevor, John B.	1713	1318	308x38	1895	Pittsburg Steamship Co., Cleveland, O.
Str	Trio	16	8	54x12	1883	Andrew Gunderson, Sheboygan, Wis.
Tug	Triton	35	24	52x15	1899	Great Lakes Towing Co., Cleveland, O.
Sip	Trix	6	6	30x 9	1895	E. A. Laughlin, Chicago, Ill.
Str	Trombly, Jose	14	10	50x12	1881	L. M. Trudell, Bay City, Mich. Rebuilt.
Tug	Troy, Henry	27	15	61x14	1891	Wm. Lahmann, Milwaukee, Wis.
Str	†Troy	3655	2966	380x45	1898	Western Transit Co., Buffalo, N. Y.
Sch	Troy	486	462	187x30	1872	Mitchell & Co., Cleveland, O.
Sch	†Truant	100	50	120x17	1892	H. H. Newberry, Detroit, Mich.
Tug	True, O. J.	16	8	43x12	1881	Herb Little, Lorain, O.
Gyt	Truth	17	17	48x16	1898	E. W. Radder, et al., Cleveland, O.
Str	Turner, Alvin A.	309	220	135x26	1890	A. C. McLean, Saginaw, Mich.
Str	†Tuscarora	2386	1679	291x40	1893	Lehigh Valley Trans. Co., Buffalo, N. Y.
Tug	Tuthill, Fannie	27	13	60x14	1873	John P. Nagle, Toledo, O.
Str	Tuttle, H. B.	744	452	179x31	1871	C. P. Gilchrist & Co., Cleveland, O. Rebuilt 1900.
Scw	Tuttle, M.	57	54	77x19	1870	John Burrell, Detroit, Mich.
Sch	Tuxbury, A. C.	679	645	181x35	1890	John Jenkins, Mngr., Marine City, Mich.
Bge	Twentieth Century..	75	75	.....	1901	Anna L. Sloan, Buffalo, N. Y.
Sch	Twin Sisters	806	747	204x35	1889	J. C. Gilchrist, Cleveland, O.

Bge #201	948	871	243x32	1890-7	Pittsburg Steamship Co., Cleveland, O.
Bge #202	948	871	243x32	1890-7	Pittsburg Steamship Co., Cleveland, O.
Tug Two Brothers	97	18	54x14	1891	A. Budzisz, Milwaukee, Wis.
Sch Two Brothers	32	30	65x18	1869	Della Smith, Sandusky, O.
Sch Two Kitties	10	10	41x12	1890	R. J. Campbell, Bay City, Mich.
Sch Two Myrtles	96	65	80x22	1899	John Johnson, Green Bay, Wis.
Bge Tycoon	287	268	142x33	1895	Pickands, Mather & Co., Cleveland, O.
Sch #Tyron	2117	1862	300x41	1895	J. C. Gilchrist, Cleveland, O.
Sch Tyson, Emma E... 356	338	157x30	1871	Runnels & Sinclair, Port Huron, Mich.	

U

Sty #Uarda	89	61	95x17	1881	Estate of C. D. Waterman, Detroit, Mich.
Sir Uganda	2053	1708	291x41	1892	Edward Mehl, Erie, Pa.
Sch Una	44	41	63x17	1877	Frank Schroeder, Milwaukee, Wis.
Sch Unadilla	396	376	153x30	1862	E. G. Riestler, Mngr., Olga Trans. Co., Tonawanda, N. Y.
Tug Uncle	14	10	49x13	1900	Simon Schacht, Erie, Pa.
Bge Uncle Paul	67	67	80x22	1900	Adams & Duford Co., Chaumont, N. Y.
Tug Uncle Sam	24	12	60x13	1863	S. C. Schenck, Toledo, O.
Slp Uno	15	14	44x12	1882	E. G. Robbins, Clayton, N. Y.
Tug Upham, J. H., Jr... 17	17	10	43x12	1880	Lake Sup. Con. & D. Co., Board of Trade, Duluth, Minn. Rebuilt 1888.
Sch Uranus	524	498	169x29	1873	J. M. Balfour, Marine City, Mich.
Sir #Uranus	3748	2943	346x48	1901	J. C. Gilchrist, Cleveland, O.
Sty #Utowano	414	266	155x27	1891	A. V. Armour, Chicago, Ill.

V

Sty Vacuna	46	23	75x13	1896	S. R. Van Duzen, Alexandria Bay, N. Y.
Sir Vail, Walter	726	641	200x35	1890	Henry J. Pauly, Milwaukee, Wis.
Sty Vailima	15	7	60x 9	1896	John A. Roach, Chicago, Ill.
Stp Valcour	10	7	44x 9	1890	Champlain Trans. Co., Burlington, Vt.
Sty Valcour	61	48	89x14	1895	Hon. Jos. C. Sibley, Valcour, N. Y. Formerly Washita.
Gas Valdez	12	8	36x 8	1901	_____, Cleveland, O.
Sir Valerie	53	29	69x17	1872	James Croze, Houghtron, Mich.
Tug Valiant	40	26	65x16	1894	Herbert. J. Knight, Erie, Pa.

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AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Str	Valletta	27	13	50x10	1887	E. J. Pelton, Alexandria Bay, N. Y.
Str	Vance, Frank L.....	1952	1642	257x39	1887	Milwaukee S. S. Co., David Vance, Mngr., Milwaukee, Wis. Rebuilt 1900.
Str	Vanderbilt	1302	1157	223x34	1871	Western Transit Co., Buffalo, N. Y.
Tug	Van Eils, H. M. ..	28	19	55x13	1885	Theo. Peeler, Milwaukee, Wis.
Sly	Vanenna	19	17	49x13	1896	W. F. Cameron, Chicago, Ill.
Str	Van Hise, Charles..	5117	3673	458x50	1900	Pittsburg Steamship Co., Cleveland, O.
Str	Van Horne, E. A. ..	10	5	50x9	1879	J. Ellis, Clayton, N. Y. Destroyed.
Str	Van Raalte, A. C. ..	97	57	87x19	1867	Now Ashland.
Ywl	Varuna	13	13	47x12	1896	John G. Plasko, Detroit, Mich.
Str	Vega	2143	1734	301x38	1893	J. C. Gilchrist, Cleveland, O.
Sch	Vega	200	190	118x26	1856	Nels Olson, Chicago, Ill.
Sly	Vencedor	18	15	49x12	1896	F. A. Price, Chicago, Ill.
Str	Venezuela	2125	1733	263x40	1897	James Davidson, W. Bay City, Mich.
Gas	Venice	19	13	54x15	1884	Edward F. McDonald, Detroit, Mich.
Str	Venus	3719	2766	346x48	1901	J. C. Gilchrist, Cleveland, O.
Sip	Vermont	1195	608	251x34	1903	Champlain Trans. Co., Burlington, Vt.
Sip	Vermont	1124	1011	261x36	1871	Champlain Trans. Co., Burlington, Vt. Rebuilt 1892.
Sch	Vermont	81	77	87x20	1853	Hans Hansen, Milwaukee, Wis. Foundered.
Str	Vernon, Jr.	33	23	69x14	1902	V. C. Seaver, Chicago, Ill.
Sch	Verona	728	691	189x34	1873	J. C. Gilchrist, Cleveland, O.
Str	Veronica	1093	880	202x34	1886	Tonawanda I. & S. Co., N. Tonawanda, N. Y.
Gyt	Vesta	21	19	44x14	1903	J. H. Smedley, Detroit, Mich.
Sch	Vesta, Eugenia ...	140	133	99x21	1876	Estate of W. Dulac, Mt. Clemens, Mich.
Sch	Victor	101	73	99x17	1875	J. E. Lindquist, Chicago, Ill.
Str	Victor	13	11	43x12	1897	Geo. Pomeroy, Detour, Mich.
Str	Victor	56	18	63x13	1897	Estate of Lewis Daniels, Vergennes, Vt.
Sip	Victoria	192	116	96x28	1872	D. B. I. & W. Ferry Co., Detroit, Mich.
Sis	Victory	3774	3339	387x48	1895	Inter Lake Co (P. M. & Co.), Cleveland, O.
Str	Vigilant	372	253	128x24	1896	Nester Estate, Detroit, Mich.
Str	Viking	1117	943	217x37	1889	F. W. Gilchrist, Alpena, Mich.

Tug	Viola	.....	30	16	60x14	1889	Cornelius W. Desmond, Buffalo, N. Y.
Sch	Viola	.....	54	51	77x21	1888	Chas. W. Liken, Sebewaing, Mich.
Tug	Violet	.....	18	9	47x12	1890	Geik C. Geiken, Charlevoix, Mich.
Stp	†Virginia	.....	1606	979	269x38	1891	Goodrich Trans. Co., Chicago, Ill.
Str	Virginia	.....	21	14	72x16	1897	J. P. Wagoner, Alexandria Bay, N. Y.
Sty	Virginia	.....	18	9	41x 9	1890	Chas. D. Marshall, Buffalo, N. Y.
Sty	Vita	.....	69	48	86x18	1888	Frank J. Hecker, Detroit, Mich.
Str	Vivian	.....	87	38	70x17	1901	T. P. Hamm, Chicago, Ill.
Sch	Voges, Theodore.	.....	163	155	103x24	1876	Phlander S. Wilson, Cleveland, O.
Sty	†Volanta	.....	32	24	82x11	1875	Charles Thoenman, Sault Ste. Marie, Mich.
Scy	Volley, Ed	.....	18	5	43x13	1881	Ed. L. Fields, Detroit, Mich.
Str	Volunteer	.....	2316	1683	270x41	1888	J. C. Gilchrist, Cleveland, O.
Tug	Volunteer	.....	34	17	58x10	1887	J. Martell, Depere, Wis.
Tug	Volunteer	.....	20	12	49x10	1888	Andrew Roeser, Sister Bay, Wis.
Sch	Volunteer	.....	23	20	48x16	1889	M. B. Snow, Traverse City, Mich.
Str	†Vulcan	.....	1759	1366	260x38	1889	J. C. Gilchrist, Cleveland, O.

W

Str	Waccamaw	.....	1359	920	249x40	1900	J. L. Crosthwaite, Buffalo, N. Y.
Sts	Wade, Addie	.....	98	67	80x20	1902	Wallace B. Griffin, Saugatuck, Mich.
Str	†Wade, J. H.	.....	1863	1502	265x38	1890	W. C. Richardson, Cleveland, O.
Sty	Wagner, Matt	.....	53	38	62x12	1888	A. E. Baker, et al., Buffalo, N. Y.
Str	Wagoner, Capt. D.	.....	19	13	54x11	1901	David Wagoner, Alexandria Bay, N. Y.
Str	†Waldo, L. C.	.....	4244	3290	387x48	1896	L. C. Waldo, Detroit, Mich.
Tug	Wales	.....	350	928	126x24	1881	Great Lakes Towing Co., Cleveland, O.
Sch	Waleska	.....	71	68	80x20	1866	H. M. Ludwig, Benton Harbor, Mich.
Sch	Walhalla	.....	114	109	97x28	1867	Chas. Cross, St. James, Mich.
Str	†Walker, Perry G.	.....	4470	3143	416x50	1903	J. C. Gilchrist, Cleveland, O.
Tug	†Walker, T. B.	.....	18	13	41x11	1902	T. B. Walker, Erie, Pa.
Sch	Wall, Chas.	.....	629	597	194x34	1866	Sandusky Lumber & Box Co., Sandusky, O.
Str	Wallace, Albert	.....	179	134	84x28	1891	Lehigh Valley Trans. Co., Buffalo, N. Y.
Sch	Wallace, Bertha	.....	8	7	31x11	1894	A. R. Winnie, Port Clinton, O.
Str	†Wallace, Robt.	.....	1640	944	238x41	1903	Great Lakes & St. L. Trans. Co., A. B. Wolvin, Mngr., Duluth, Minn.
Str	Walula	.....	1924	1415	260x39	1882	J. C. Gilchrist, Cleveland, O.
Sty	Walsh, Lizzie	97	22	65x14	1882	G. T. Sands, Pentwater, Mich.
Sch	Walter	17	16	44x13	1893	E. J. Stripe, Ontonagon, Mich.

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AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Class.	Vessel.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	Name and Address of Owner or Manager.
Str	Walter D.	136	123	101x27	1891	Thos. J. Degnan, Toledo, O.
Str	Walter J.	9	6	29x8	1896	William R. Jones, Buffalo, N. Y.
Reg	Walton, Andrew ...	372	360	152x28	1869	A. L. Hyde, Cleveland, O.
Tug	Walton, B.	32	16	62x15	1891	Lake Sup. Con. & D. Co., Board of Trade, Duluth, Minn.
Str	Walworth.	18	9	71x12	1882	F. D. Hills, Chicago, Ill.
Sch	Wand, Geo. H.	358	340	138x30	1866	—, Sandusky, O. Lost.
Str	Wanda.	20	13	60x12	1892	Bertram C. Whitney, Detroit, Mich.
Sly	Wanda.	5	5	31x11	1883	C. H. Harvey, Erie, Pa.
Sch	Wanderer.	14	14	41x11	1890	Daniel W. Seavey, Bay Port, Mich.
Str	Waneka.	22	12	55x10	1889	Steven J. Bowling, Detroit, Mich.
Tug	Ward, A. B.	30	15	59x14	1866	John T. Connery, Chicago, Ill.
Str	Ward, Eber.	1343	1087	213x37	1888	Union Transit Co., Buffalo, N. Y.
Tug	Ward, J. W.	40	29	63x16	1891	Edward Mitchell, Marquette, Mich.
Str	Warner, Chas. M. ...	3812	2753	370x48	1903	U. S. Trans. Co., 1105 Williamson Bldg., Cleveland, O.
Str	Warner, R. S.	3062	2128	318x42	1901	D. R. Hanna, Cleveland, O.
Tug	Warwick.	24	16	50x13	1880	James Rooney, Toledo, O. Rebuilt 1899.
Str	Warren, Homer.	448	281	176x29	1863	Shannon & Garey, Saginaw, Mich.
Str	Warren, H. O.	26	17	51x10	1908	Wm. T. Kiel, Oshkosh, Wis.
Tug	Warren, Minnie ...	19	13	47x12	1869	M. O'Neil, Charlevoix, Mich.
Sch	Warner, S. D.	2279	2125	300x42	1901	D. R. Hanna, Cleveland, O.
Sch	Warrington, G. H. ...	559	531	170x31	1872	Lerry McCarthy, Buffalo, N. Y.
Str	Washita.	61	48	89x14	1895	Now Valcour.
Str	Wasp.	41	39	67x19	1882	W. S. Jones, Buffalo, N. Y.
Str	Watkins, Edward..	20	10	45x15	1873	David L. Ramage, Sturgeon Bay, Wis.
Sch	Watkins, Grace ...	18	17	42x13	1887	Lewis J. Rice, Jr., Detroit, Mich.
Tug	Watson, A. B.	28	14	50x13	1880	R. P. Thompson, Port Huron, Mich.
Str	Watson, C. W.	4306	3364	380x50	1902	J. C. Gilchrist, Cleveland, O.
Str	Watson, Harvey ...	37	31	56x13	1893	Patrick Flanagan, Charlevoix, Mich.
Str	Watt, James.	4090	3105	405x48	1896	Pittsburg Steamship Co., Cleveland, O.
Tug	Wau Bun.	68	31	72x16	1887	Conrad Niederman, Milwaukee, Wis.

Str	Wau-Kon	.....	137	93	95x18	1883	L. R. Boynton, St. Ignace, Mich.
Bge	Waunegan	.....	58	58	61x15	1893	S. A. Maxwell, Alexandria Bay, N. Y.
Sch	Waunetta	.....	6	6	33x10	1897	Sophia Bird, Cheboygan, Mich.
Str	Wave	.....	13	7	39x11	1887	W. G. Wilcox, Plattsburg, N. Y.
Str	Wave Crest	.....	63	60	84x23	1864	J. R. White, Rochester, N. Y.
Str	Waverly	.....	1104	989	191x33	1874	J. C. Gilchrist, Cleveland, O. Lost.
Str	Wawa	.....	16	10	44x10	1891	Geo. F. Shipman, Escanaba, Mich.
Str	Wawatam	.....	1856	1526	266x38	1891	Pittsburg Steamship Co., Cleveland, O.
Sch	Wayne	.....	708	629	189x34	1882	Hines Lumber Co., Chicago, Ill.
Str	Wayward	.....	42	21	89x16	1882	B. W. Parker, Detroit, Mich.
Sch	Weaver, Jennie	...	88	83	97x22	1882	E. M. Larson, Sheboygan, Wis.
Sch	Weaver, Winnie	...	17	16	45x13	1889	J. E. McDonald, Sturgeon Bay, Wis.
Str	Weeks, J. L.	.....	4551	3451	416x50	1903	J. C. Gilchrist, Cleveland, O.
Str	Wehrle, A. Jr.	....	421	291	148x26	1889	G. A. Boeckling, Sandusky, O.
Tug	Weidemann, R. H.	...	34	20	58x15	1882	L. E. Welch, Cheboygan, Mich.
Str	Welcome	.....	212	129	80x21	1894	H. S. Dale, St. Clair, Mich.
Tug	Welcome	.....	77	38	85x20	1890	W. H. Meyer, Milwaukee, Wis.
Tug	Welcome	.....	58	29	68x17	1890	Lake Sup. Con. & D. Co., Board of Trade, Duluth, Minn.
Tug	Welcome	.....	10	5	42x12	1838	John W. Cornell, Detroit Harbor, Wis.
Tug	Welcome	.....	56	28	82x17	1876	Great Lakes Towing Co., Cleveland, O.
Str	Welcome	.....	222	140	120x25	1878	J. Eggers, Two Rivers, Wis. Rebuilt 1900. Stranded.
Sch	Welcome	.....	93	65	100x17	1877	Geo. Pretzel, Chicago, Ill.
Gas	Welcome	.....	7	7	42x10	1903	Vojtech Stiresc, Chicago, Ill.
Sch	Wells, D. A.	.....	56	53	62x18	1874	Henry Schiffers, Grand Haven, Mich.
Str	Wells, Frederick B.	...	4897	3630	430x50	1901	Peavey S. S. Co., Duluth, Minn.
Sch	Wells, Hattie	.....	376	357	164x28	1867	F. L. Wells, Port Huron, Mich.
Str	Wemco II.	.....	32	32	60x16	1902	C. C. Warren, Sandusky, O.
Str	Wente, Robert C.	...	335	267	141x30	1888	Manistee Lumber Co., Manistee, Mich.
Sch	Wescott, Geo. W.	....	122	116	111x24	1863	Tom Olsen, care Starkey's Tug Office, Milwaukee, Wis.
Str	West, George R.	...	22	11	54x13	1885	Martin Treu, Milwaukee, Wis.
Str	Westerman Geo. Sr.	...	9	6	30x 8	1890	H. S. Tompkins, LaSalle, N. Y. Abandoned.
Sch	Wesley, Geo. W.	...	280	266	157x28	1867	Chas. Ebert, Bay City, Mich. Abandoned.
Sch	Wesley, John	302	287	135x26	1872	Wm. H. Sanborn, Alpena, Mich. Abandoned.

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AMERICAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.
Str	Westcott, J. W....	522	451	169x30	1883	C. G. Forster, care Forster Lumber Co., Milwaukee, Wis.
Tug	Westcott, J. W.....	18	9	41x11	1880	W. C. Davidson, Grand Marais, Mich.
Str	Western Star	4764	3593	416x50	1903	Michael J. Cummings, Oswego, N. Y.
Sip	Western States	3077	1566	366x45	1902	Det. & Buffalo Sibt. Co., W. C. McMillan, Mngr., Detroit, Mich.
Str	Westford	302	223	134x25	1869	John J. Boland, Buffalo, N. Y.
Sir	Weston, A.	511	269	163x31	1882	Charles Weston, Mngr., N. Tonawanda, N. Y.
Sch	West Side	324	308	138x26	1870	Minnie E. Edwards, Chicago, Ill.
Bge	West Superior	134	134	93x30	1898	Lake Sup. Con. & D. Co., Duluth, Minn.
Tug	Wheeler, Irma L....	51	25	66x15	1877	Ole Hansen, Milwaukee, Wis.
Gyt	Whim-Wham	133	78	86x23	1898	Buffalo, N. Y.
Sty	Whisper	34	17	62x11	1882	Geo. K. Birge, Buffalo, N. Y.
Sch	Whistler	19	18	36x15	1892	Leo. Dumonlin, Detroit, Mich.
Sir	Whitaker, Byron ...	1586	1388	220x38	1890	B. Whitaker, Detroit, Mich.
Sch	White, Chas. N....	115	84	98x17	1888	Geo. B. Hall, Rochester, N. Y.
Tug	White, Kate.....	24	18	66x15	1885	John Dash, Erie, Pa.
Sch	White Swan.....	9	9	31x10	1894	Peter Jacobs, Sault Ste. Marie, Mich.
Str	White, Thos.	11	8	39x10	1903	William Brown, Chicago, Ill.
Sch	White Wings	11	11	96x13	1902	Geo. S. Griffin, South Haven, Mich.
Ywl	White Wings	16	16	53x15	1882	F. Dugo, Rocky River, O.
Sch	White & Friant ...	348	348	152x38	1881	Shannon & Garey, Saginaw, Mich.
Sch	Whiting, Lula	23	22	57x16	1883	Andrew Shinkney, Au Sable, Mich.
Str	Whitney, D. C.	1090	1013	229x40	1882	J. C. Gilchrist, Cleveland, O.
Sir	Whitney, Grace ...	289	275	412x51	1901	J. C. Gilchrist, Cleveland, O.
Sch	Whitworth, Sir J....	1192	1132	253x36	1889	M. Sicken, Marine City, Mich.
Bge	Whitworth, Sir J....	1192	1132	253x36	1889	Pittsburg Steamship Co., Cleveland, O.
Sch	Widgeon	22	21	46x13	1866	A. M. Ralston, Toledo, O.
Sly	Widith	6	6	32x 9	1899	W. W. Weightman, Chicago, Ill.
Sir	Wiehe, Trude R....	768	449	187x33	1885	E. Hines Lumber Co., Chicago, Ill.
Sir	Wilber	13	10	40x 8	1891	M. D. Wilber, Chicago, Ill.
Sch	Wilbor, J. B.	412	391	163x30	1867	Thos. Bradwell, Chicago, Ill.
T....	W... ..	44	37	53x17	1895	High Valley R. R. Co.

Str	†Wilbur, E. P.	.....2633	1902	290x40	1888	Lehigh Valley Trans. Co., Buffalo, N. Y.
Sch	Wilcox, M. I.	.....377	358	137x27	1866	Mich. Wkg. & Salvage Co., Detroit, Mich.
Sly	Wilcox, M. I.	.....41	41	70x16	1894	Simon Failing, Point Peninsula, N. Y.
Tug	Wilcox Co., The M.I.	14	10	40x12	1880	John R. Benchler, Toledo, O. Rebuilt 1900.
Str	Wilhelm, S. S.	.....683	491	185x35	1888	Name changed to L. L. Barth.
Str	†Wilkesbarre	.....4153	831	381x50	1901	Lehigh Valley Trans. Co., Buffalo, N. Y.
Str	†Wilkinson, H. S.	.....3360	3057	370x48	1902	U. S. Trans. Co., Williamson Bldg., Cleveland.
Tug	Will and Harry	.....10	7	39x12	1898	Daniel H. Owen, Ashtabula, O.
Str	William D.	.....8	5	31x 9	1899	Chas. H. Flower, Buffalo, N. Y.
Tug	William D.	.....51	25	70x19	1892	Great Lakes Towing Co., Cleveland, O.
Tug	William H.	.....38	26	69x17	1898	Penna. Fishing Co. Erie, Pa.
Tug	Williams	.....89	61	87x19	1876	Buffalo, Dredging Co., Buffalo, N. Y. Rebuilt. Formerly Ella M. Smith.
Bge	Williams, Alonzo	....73	73	.....	1887	James Hughes, Buffalo, N. Y. Out of com.
Tug	Williams, Eliza	...37	18	62x14	1872	Lake Sup. Con. & D. Co., Board of Trade, Duluth, Minn.
Sch	Williams, Ellen	....274	240	130x30	1855	O. Swanson, La Grange, Ill.
Str	Williams, Geo. F.	....1888	1506	280x41	1889	J. C. Gilchrist, Cleveland, O.
Str	Williams, H. W.	...691	548	170x35	1888	Dunkley-Williams Co., So. Haven, Mich.
Tug	Williams, J. L.	.....51	25	67x16	1883	Great Lakes Towing Co., Cleveland, O.
Tug	Williams, Kate	....164	110	112x20	1862	Lake Shore Stone Co., Milwaukee, Wis.
Bge	Willie	.....50	50	.....	1894	Geo. E. Currie, Detroit, Mich.
Str	Willow	.....15	10	63x14	1903	E. A. Graham, St. Joseph, Mich.
Sch	Wilson, Annabell	....490	467	174x32	1887	Holland & Graves, Buffalo, N. Y.
Tug	Wilson, H. B.	.....33	26	48x10	1877	E. T. Webb, Jackson, Mich.
Str	Wilson, Kate	.....15	10	48x12	1897	Eugene Loesch, Erie, Pa.
Sch	Wilson, Mabel	....1224	1185	242x39	1886	P. J. Ralph & Co., Detroit, Mich.
Str	†Wilson, Matthew	...322	243	141x27	1872	Jes. Sanford, Muskegon, Mich.
Str	†Wilson, Capt. Thos.	4719	3959	420x50	1900	Wilson Transit Co., Cleveland, O.
Str	†Wilson, Thomas	...1713	1318	308x38	1892	Pittsburg Steamship Co., Cleveland, O.
Tug	Wilson, Thomas	...71	35	73x18	1888	Great Lakes Towing Co., Cleveland, O.
Sch	Wilson, Thomas C.	30	29	58x15	1868	Mary J. Devine, Sturgeon Bay, Wis.
Tug	†Wilson, Gen. John M.	42	28	70x15	1898	U. S. Engineer, Buffalo, N. Y.
Scw	Windsor	.....193	140	74x50	1894	Geo. W. Archer, Rochester, N. Y.
Sch	Wing, Winnie	.....200	190	118x28	1867	Julia Hanson, Manitowoc, Wis.
Str	†Winnebago1091	786	200x39	1903	John Prindiville & Son, Chicago, Ill.
Sch	Winter, Jessie56	53	74x16	1876	Now La Rabida.

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CLASS.	VESSEL.	Gross Tonnage	Net Tonnage	Keel Beam	Year Built	NAME AND ADDRESS OF OWNER OR MANAGER.	
Str	Winyah	143	74	115x20	1894	F. W. Fletcher,	Alpena, Mich.
Str	†Wisconsin	4858	3707	.....	1903	.....	Marquette, Mich.
Str	†Wisconsin	4858	3707	428x50	1901	H. A. Hawgood,	Cleveland, O.
Str	Wisconsin	16	11	41x10	1885	Walter Jergenson,	Neenah, Wis.
Tug	Wisconsin	56	28	76x16	1885	Great Lakes Towing Co.,	Cleveland, O.
Str	Wisahickon	1619	1423	238x35	1876	E. & W. T. Co., Anchor L.,	Buffalo, N. Y.
Sch	Witbeck, Henry	498	473	167x33	1880	Ogdensburg C. & T. Co.,	Ogdensburg, N. Y.
Tug	Witch of the West.	23	11	59x13	1856	W. H. Sharp, Bay City, Mich.	Abandoned.
Str	†Witherbee, J. G.	114	57	108x20	1872	Lake Champlain T. Co.,	Whitehall, N. Y.
Str	Witt, Herman	12	7	43x11	1903	Nicholas H. Witt, Duluth, Minn.	
Sch	Witter, Wm. E.	133	105	91x17	1890	L. E. Huntley, Buffalo, N. Y.	
Sly	Wizard	6	6	31x11	1896	H. A. Aronson, Chicago, Ill.	
Str	Wolf, William H.	2265	1791	285x42	1887	W. Div. S. S. Co., Milwaukee,	D. Sullivan & Co., Mngrs., Chicago, Ill.
Sch	Wolverine	195	185	117x25	1871	Wm. Schlosser, Milwaukee, Wis.	
Str	†Wolvin, A. B.	2286	1587	242x42	1900	Pittsburg Steamship Co.,	Cleveland, O.
Str	Wonder	99	78	94x19	1889	Michael Diebler, Marine City, Mich.	Rebuilt.
Sch	Wonder	39	37	61x16	1875	J. A. Woltman, Chicago, Ill.	
Sch	Wood, S. A.	294	248	142x28	1868	Patrick Myers, 169 Jackson st.,	Chicago, Ill.
Str	†Woodruff, Louis	4707	3380	416x50	1903	J. C. Gilchrist, Cleveland, O.	
Tug	Woods, Arthur	37	18	54x15	1888	Great Lakes Towing Co.,	Cleveland, O.
Str	Woods, Frank	384	316	120x25	1888	R. C. Brittain, Saugatuck, Mich.	
Str	Woodworth, F. C.	89	78	68x15	1901	Fred Woodworth, W. Webster, N. Y.	
Sch	Woolson, Mary	708	673	179x34	1888	O. W. Blodgett, Bay City, Mich.	
Str	Wotan	886	712	191x36	1893	Louis Sands, Manistee, Mich.	
Sch	Wren	6	6	34x 9	1890	Steve Dudley, Hesperia, Mich.	
Sch	Wren, George L.	214	203	129x26	1868	Emery D. Weimer, Ludington, Mich.	
Str	Wright, Albert J.	240	124	118x23	1881	Leatham & Smith, Sturgeon Bay, Wis.	
Sch	Wright, A. J.	130	106	96x17	1880	J. F. Schoellkopf, Buffalo, N. Y.	
Str	Wright, Alfred P.	2207	1899	286x41	1888	J. C. Gilchrist, Cleveland, O.	
Sch	Wright, A. W.	530	507	169x33	1880	W. H. Sharp, Bay City, Mich.	
Sch	Wright, John W.	26	24	52x13	1869	Marten Jorgensen, Detroit Harbor, Wis.	
Sch	Wright, John W.	26	24	52x13	1869	Marten Jorgensen, Detroit Harbor, Wis.	

Tug Wyland, J. L.....	22	18	60x14	1885	Penna. Fishing Co., Erie, Pa.
Sch Wyman, Charles E.	234	222	132x29	1882	Anthony Bolster, Milwaukee, Wis.
Str Wyoming .....1952	1739	241x39	1887	P. P. Miller, Buffalo, N. Y.	
Str Wyoming 350	291	153x28	1870	Shannon & Garey, Saginaw, Mich.	
X					
Sch X. 10 U. 8.....	23	22	44x15	1888	Mary V. Allers, South Haven, Mich.
Y					
Str Yakima	1986	1657	279x40	1887	J. C. Gilchrist, Cleveland, O.
Str †Yale	3453	2698	371x45	1895	The Yale Transit Co. (R. R. Rhodes), Cleveland.
Sch Yankee	236	224	138x25	1862	Mills Trans. Co., Marysville, Mich.
Tug Yates, Florence	32	16	57x14	1875	Yates Coal Co., Rochester, N. Y.
Str Yonkers	1770	1571	264x36	1879	Western Transit Co., Buffalo, N. Y.
Str York State	89	71	66x24	1899	N. G. Gaylor, Ludington, Mich.
Sch York State	277	256	134x28	1869	J. W. Baker, Chicago, Ill.
Str †Yosemite	3879	3044	356x50	1901	G. A. Tomlinson, Duluth, Minn.
Str F.B. Yosemite	142	....	98x33	1890	Chicago Fire Dept., Chicago, Ill.
Str Youghiogheny	177	170	115x31	1889	Pittsburg Coal Co., Cleveland, O.
Sch Young, C. L.	382	363	155x29	1872	Geo. Frances, Bay City, Mich.
Sch Young, Wm. A.	434	413	165x30	1883	H. McMorran, Port Huron, Mich.
Sch Yukon	1602	1522	270x42	1893	J. C. Gilchrist, Cleveland, O.
Str †Yuma	2194	1828	322x42	1893	Wilson Transit Co., Cleveland, O.
Z					
Sch Zapotec	811	796	204x34	1890	Marine Transit Co., Capt. Jas. Taylor, Mngr., Marine City, Mich.
Sch Zenith	30	30	.....	1899	W. A. Whitney, W. Superior, Wis.
Tug Zenith	95	47	83x21	1895	Great Lakes Towing Co., Cleveland, O.
Str †Zenith City	3850	3429	387x48	1895	Pittsburg Steamship Co., Cleveland, O.
Sch Zenobia	142	117	93x17	1881	S. T. Stacv, Buffalo, N. Y.
Str Zero	24	15	57x13	1891	John A. Miller, Marine City, Mich.
Str Zillah	748	583	201x37	1890	O. W. Blodgett, Bay City, Mich.
Str Ziyara	9	6	54x 8	1890	Charles Line, Chicago, Ill.

Canadian Steam and Sail Vessels of the Great Lakes

†Indicates steel vessels.

Tons of steam vessels are gross tons, sail vessels registered tons.

Year in brackets, thus (1895), is year in which vessel was built.

Aaron, sail, 144 tons, 108 ft., (1881), The Ottawa
wa Transportation Co., Ltd., Ottawa.
Acacia, sail, 188 tons, 102 ft., (1871), J. Crosby,
Kingston.
Active, sail, 64 tons, 84 ft., (1887), J. McCal-
linon, Wallaceburg.
Abbey, Olivia, sail, 88 tons, 100 ft., (1884),
John Bradley, Merriton.
Abeona, stm., 46 tons, 89 ft., (1889), Albert E.
Gooderham and T. J. Blackstock, Toronto.
Aberdeen, stm., 674 tons, 180 ft., (1894), Min-
ister of Marine & Fisheries, Ottawa.
Aberdeen, stm., 13 tons, 51 ft., (1894), Wm.
Harty, Kingston.
Aberdeen, stm., 142 tons, 99 ft., (1894), A. W.
Hepburn, Picton.
Abino, stm., 8 tons, 41 ft., (1894), Fred Masters,
Niagara-on-the-Lake, Ont.
Acacia, stm., 107 tons, 92 ft., (1893), M. & O.
Mathews, Hamilton.
Acadia, stm., 520 tons, 122 ft., (1880), Minister
of Marine & Fisheries, Ottawa.
Active, stm., 302 tons, 129 ft., (1873), Montreal
Trans. Co., Montreal.
Ada, stm., 29 tons, 61 ft., (1886), Chas. Ogilvie,
Ottawa.

Albani, stm., 58 tons, 78 ft., (1882), W. H.
Comstock, Brockville.
Albani, stm., 5 tons, 36 ft., (1892), Ed. Nor-
quay, Port Dover.
Albani, sail, 159 tons, 107 ft., (1883), H. F.
Cumming, Cornwall.
Albatross, sail, 317 tons, 136 ft., (1871), Mid-
land Towing & Wkg. Co., Ltd., Midland
Ont. Rebuilt.
Albert, stm., 296 tons, 147 ft., (1888), Upper
Ottawa Improvement Co., Ottawa.
Albert, stm., 1 ton, 21 ft., (1891), Henry W.
Harrison, Hamilton.
Albert, sail, 147 tons, 109 ft., (1897), H. E.
Larkin and A. Sangster, Iroquois.
†Alberta, stm., 2282 tons, 270 ft., (1888), Cana-
dian Pacific Ry. Co., Owen Sound.
Albina, sail, 180 tons, 110 ft., (1887), G. F. Ben-
son and J. D. Reid, Cardinal.
Albion, sail, 149 tons, 110 ft., (1888), The Otta-
wa Transportation Co., Ltd., Ottawa.
Alderson, lvey, stm., 38 tons, 66 ft., (1885), H.
W. Anslay, Port Dover.
Aldrich, B. W., stm., 49 tons, 65 ft., (1868), Reid
Wrecking Co., Sarnia.
Alert, stm., 50 tons, 64 ft., (1893), Dent of

Adams, James, stm., 51 tons, 68 ft., (....). Jas.
Whalen, Port Arthur.
Admiral, paddle stmtr., 9 tons, 45 ft., (1880),
Peter G. Carpenter, Sombra.
Adrelexa, stm., 15 tons, 46 ft., (1886), James
Scott, Toronto.
Advance, stm., 41 tons, 66 ft., (1862), F. Smith,
Toronto.
Advance, stm., 72 tons, 48 ft., (1886), Wm. A.
Kennedy, Manitoulin.
Advance, stm., 769 tons, 178 ft., (1884-1901),
Matthews Line, Toronto.
†Agawa, sail, 3516 gross tons, 376 ft., (1902),
Algoma Central S. S. Line, Sault Ste. Marie.
Aggie, sail, 13 tons, 47 ft., (1887), Christopher
Armstrong, Oakville.
Agnes, stm., 23 tons, 50 ft., (1884), Geo. T.
Dunn, Owen Sound.
Agnes, stm., 14 tons, 55 ft., (1898), Thos. Ellis,
Roach's Point, Toronto.
Agnes C., stm., 20 tons, 47 ft., (1887), W. H.
Plummer, Sault Ste. Marie.
Agwinde, stm., 307 tons, 150 ft., (1900), Rainy
River Nav. Co. Ltd., Rat Portage.
Ahmic, stm., 43 tons, 61 ft., (1896), Muskoka
& Georgian Bay Nav. Co., Gravenhurst.
Aid, sail, 368 tons, 153 ft., (1885), Ogdensburg
Coal & Towing Co., Ogdensburg, N. Y.
Aikins, W. J., stm., 42 tons, 60 ft., (1874), D.
C. Graham, Fort William.
Aileen, sail, 25 tons, 65 ft., (1892), Robt. Myles,
Toronto.
Ajax, stm., 33 tons, 54 ft., (1902), W. F. C.
Boyd, Bobcaygeon.
Alaska, stm., 49 tons, 61 ft., (1884), Wm. J.
Murphy, Morrisburg.

Alert, stm., 47 tons, 58 ft., (1886), Carter Bros.,
Pt. Colborne.
Alert, stm., 56 tons, 67 ft., (1901), Wm. H.
White, Lakefield.
Alethea, stm., 90 tons, 107 ft., (1901), Mrs.
Aletha Roys, Kingston.
Alexander, sail, 351 tons, 134 ft., (1857), Bryce
Muir, Port Dalhousie.
Alexandra, stm, 105 tons, 76 ft., (1891), J. B.
Perkin, Lindsay.
Alexandria, paddle stmtr., 863 tons, 173 ft.,
(1883), Arthur W. Hepburn, Picton.
Alfie, stm., 3 tons, 28 ft., (1887), M. B. Thomas,
Dundas.
Alfred, paddle stmtr., 89 tons, 48 ft., (1895), A. L.
Davis, Peterboro.
Algerian, paddle stmtr., 914 tons, 175 ft., (1874),
Richelieu & Ont. Nav. Co., Montreal.
Algona, stm., 157 tons, 104 ft., (1901), Robt.
A. Lyon, Sault Ste. Marie.
Algoma, stm., 5 tons, 36 ft., (1901), Davis D.
D. Co., Kingston.
†Algonquin, stm., 1906 tons, 245 ft., (1888), St.
Lawrence & Chicago Steam Nav. Co., To-
ronto.
Alice, sail, 163 tons, 108 ft., (1878), The Ottawa
Transportation Co., Ltd., Ottawa.
Aligator paddle stmtr., 6 tons, 31 ft., (1893), F.
Baker, Barrie.
Allan, Eliza, sail, 110 tons, 84 ft., (1875), Ed.
Harris, Port Dover.
Alliance, sail, 33 tons, 17 ft., (1867), Arnold
Winegardin, Chatham.
Allie, stm., 11 tons, 40 ft., (1890), A. W. Jones
and D. M. Jones, Ottawa.
Allumet, sail, 27 tons, 52 ft., (1902), Upper
Ottawa Improvement Co., Ottawa.

Alma T., stm., 16 tons, 35 ft., (1889), Ont. & Western Lumber Co., Ltd., Rat Portage.	Argus, stm., 27 tons, 55 ft., (1884), Minister of Customs, Ottawa.
Almida, stm., 8 tons, 30 ft., (1899), A. W. Nuttall, Port Arthur.	Argyle, stm., 78 tons, 59 ft., (1900), Clifford Lewis, Keewatin.
Alva, stm., 27 tons, 50 ft., (1901), Henry E. Shaver, Ottawa.	Argyle, paddle stm., 700 tons, 185 ft., (1899), A. W. Hepburn, Picton.
Alzora, sail, 43 tons, 65 ft., (1890), Louis Thibert, Belle River.	Ariadne, stm., 38 tons, 63 ft., (1885), Asa Ribble, Dresden.
Amable du Fond, paddle stm., 17 tons, 41 ft., (1894), H. F. McLachlin, et al., Arnprior.	Ariadne, sail, 17 tons, 46 ft., (1901), Peter Gratton, Amherst Island.
America, stm., 521 tons, 153 ft., (1895), St. Lawrence River Sibt. Co., Kingston.	Ariadne, sail, 16 tons, 81 ft., (1891), J. McIntosh, South Marysburg.
Ampere, stm., 5 tons, 31 ft., (1894), Allan Marshall, Hamilton.	Ariel, stm., 3 tons, 25 ft., (1900), John H. Mason, Toronto.
Amy, stm., 40 tons, 55 ft., (1901), Rudolph MacDonald, Toronto.	Ariel, sail, 162 tons, 111 ft., (1867), D. C. Strong, Goderich.
Anchora, stm., 6 tons, 42 ft., (1902), Robt. J. McKee, Toronto.	Ark, sail, 48 tons, 45 ft., (1885), Patrick Nestor, Rat Portage.
Anderson, stm., 16 tons, 42 ft., (1888), James Clark, Warton.	Arlington, stm., 23 tons, 61 ft., (1878), Toronto Ferry Co., Ltd., Toronto.
Andrus, W. P., sail, 28 tons, 52 ft., (1894), Rat Portage Fish Co., Rat Portage.	Armenia, stm., 110 tons, 100 ft., (1876), Deseronto Nav. Co., Deseronto.
Anglin, R., stm., 97 tons, 97 ft., (1869), R. F. Holcomb, Ottawa.	Armenia, sail, 142 tons, 110 ft., (1881), T. H. Kirby and C. W. Bangs, Ottawa.
Anglo-Saxon, paddle stm., 69 tons, 68 ft., (1868), Ontario Bank, Toronto.	Armstrong, Chas. E., stm., 49 tons, 56 ft., (1894), E. Armstrong, Pt. Colborne.
Anglo-Saxon, sail, 253 tons, 133 ft., (1864), ex-ecutors of estate D. D. Calvin, Kingston.	Arno, sail, 152 tons, 111 ft., (1881), Ottawa Transportation Co., Ltd., Ottawa.
Anglo-Saxon, sail, 180 tons, 58 ft., (1898), David Davidson, Penetanguishene.	Arnold, Fanny, stm., 73 tons, 89 ft., (1882), Spanish River Co., Spanish River.
Anna, stm., 8 tons, 44 ft., (1883), E. E. Gilbert, Cardinal.	Arnoldi, John R., sail, 68 tons, 72 ft., (1884), Wm. Marleton, Goderich.
Anna B., sail, 14 tons, 43 ft., (1892), Angus McKinnon, Rat Portage.	Arnott, Mary, stm., 8 tons, 31 ft., (1886), D. Lowery, Brantford.
Annapdale, sail, 180 tons, 111 ft., (1868-1879), Geo. Irving, Burlington.	Arthur, sail, 327 tons, 148 ft., (1893), Elias Rogers Co., Ltd., Toronto.

- Anne Marie, stm., 8 tons, 37 ft., (1886), D. Gillies, Carleton Place.
- Annie, sail, 30 tons, 55 ft., (1877), P. Demars and M. Thibreau, Dover East.
- Annie, sail, 70 tons, 96 ft., (1883), Asa Ribb, Dresden.
- Annie, sail, 30 tons, 59 ft., (1889), The Ont. & Western Lumber Co., Ltd., Rat Portage.
- Annie, stm., 1 ton, 25 ft., (1886), E. A. Dunlop et al., Pembroke.
- Annie Laurie, stm., 3 tons, 36 ft., (1890), T. Reynolds and H. Dreany, North Bay.
- Annie M., stm., 33 tons, 56 ft., (1900), David H. Clark, Collingwood.
- Annie McC., stm., 13 tons, 33 ft., (1897), Thos. McLeod, Port Arthur.
- Antelope, stm., 20 tons, 60 ft., (1889), John A. Davis, Escott, Ontario.
- Antelope, sail, 334 tons, 138 ft., (1873), Albert A. J. Foster and Amelia Ure, Toronto.
- Antelope, sail, 180 tons, 106 ft., (1854), Jos. Glass, Sarnia.
- Arabian, stm., 1073 tons, 178 ft., (1892), J. B. Fairgrieve & Co., Hamilton.
- Arbutus, stm., 49 tons, 63 ft., (1887), E. Chapman, Lion's Head.
- Arctic, sail, 172 tons, 130 ft., (1858), Catherine A. Sidley, Belleville.
- Arctic, stm., 101 tons, 96 ft., (1893), Sand & Dredging Co., Ltd., Toronto.
- Argo, paddle stmr., 154 tons, 125 ft., (1892), Alex Lumsden, Stanley Ave., N. E., Ottawa.
- Argo, stm., 7 tons, 27 ft., (1895), C. Bell, Owen Sound.
- Arsy, stm., 1 ton, 21 ft., (1883), John E. Thompson, Toronto.
- Aryan, stm., 2 tons, 30 ft., (1895), M. R. Davis, Kingston.
- Ashley, E. G., stm., 10 tons, 40 ft., (....), D. A. Gordon, Wallaceburg.
- †Athabasca, stm., 2269 tons, 262 ft., (1883), Canadian Pacific Ry. Co., Owen Sound.
- Atlantic, stm., 683 tons, 147 ft., (1883), Northern Nav. Co., of Ont., Ltd., Collingwood.
- Augusta, stm., 57 tons, 66 ft., (1883), Daniel McGrath, Port Dalhousie, Ont.
- Augustus, sail, 802 tons, 177 ft., (1893), Montreal Trans. Co., Montreal.
- Aunt Ruth, sail, 111 tons, 98 ft., (1863), Jas. Reid & Sons, Sarnia.
- Aurelia, stm., 32 tons, 56 ft., (1869), Robt. Weddell, Trenton.
- Aurora, sail, 234 tons, 125 ft., (1867), Blind River Mfg. Co., Sarnia.
- Austin, J. S., sail, 323 tons, 136 ft., (1863), Sault Ste. Marie Pulp & Paper Co., Sault Ste. Marie.
- Avery, F. W., stm., 14 tons, 37 ft., (1895), F. W. Avery, Ottawa.
- Ayr, sail, 299 tons, 133 ft., (1858), Alexander McArthur, Toronto.
- Azov, sail, 195 tons, 108 ft., (1866), John Shaw, Forest.
- Babineau & Gaudry, sail, 156 tons, 95 ft., (1864), Hiram Ives, Windsor.
- Bailey, Emery, sail, 47 tons, 70 ft., (1868), R. Smith, Oakville.
- Bain, Jessie, stm., 67 tons, 70 ft., (1893), St. Lawrence River Stbt. Co., Kingston.
- Baird, Harry, stm., 42 tons, 61 ft., (1885-1896), James Leighton, Port Elgin.

CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Baldwin, Mary, sail, 7 tons, 34 ft., (1876), A. Mathews, Lakeport.	Beck, Mary, stm., 16 tons, 48 ft., (1876), John Gidley, Penetanguishene.
Ballou, H. M., sail, 52 tons, 80 ft., (1867), E. Goldring, Toronto.	Beckett, Thos., sail, 151 tons, 111 ft., (1881), Ottawa Transportation Co., Ltd., Ottawa.
Balmoral, stm., 37 tons, 53 ft., (1899), L. Bellefeuille, Rat Portage.	Beckwith, J. L., stm., 61 tons, 60 ft., (1872), Wm. Grierson, Sault Ste. Marie.
Bangs, C. W., sail, 152 tons, 105 ft., (1886), Ottawa Transportation Co., Ltd., Ottawa.	Bedford, sail, 107 tons, 103 ft., (1863), The Deseronto Nav. Co., Ltd., Deseronto.
Banning, Ethel, stm., 38 tons, 50 ft., (1890), Ontario & Western Lumber Co., Ltd., Rat Portage.	Bedford, Mary, sail, 61 tons, 101 ft., (1888), Benj. Tett, Bedford Mills.
Baptiste, paddle stm., 8 tons, 37 ft., (1902), R. C. Carter, Deseronto.	Belknap, sail, 46 tons, 81 ft., (1874), John Cooper, Chatham.
Barge No. 1, sail, 48 tons, 50 ft., (1898), H. F. Cumming and J. B. McMillan, Cornwall.	Bell, Ida, stm., 6 tons, 28 ft., (1890), C. C. Bates, Clear Creek.
Barge No. 2, sail, 60 tons, 81 ft., (1898), Wm. Lawlor, Hawkesbury.	Bell, Ida, sail, 97 tons, 87 ft., (1874), Jas. W. Wye, Kingsville.
Barge No. 3, sail, 54 tons, 81 ft., (1898), Wm. Lawlor, Hawkesbury.	Bell, Kaie, stm., 2 tons, 31 ft., (1898), John B. McRae, Ottawa.
Barge No. 4, sail, 54 tons, 81 ft., (1898), Contractors Supply Co., Ltd., Ottawa.	Belle, stm., 7 tons, 37 ft., (1876), John R. Bell, Toronto.
Bark Swallow, sail, 14 tons, 42 ft., (1872), J. H. Hill, Port Credit.	Belle, stm., 16 tons, 44 ft., (1896), G. A. Brown, Port Burwell.
Barlum, John J., sail, 1184 tons, 222 ft., (1890), Algoma Central Steamship Line, Sault Ste. Marie.	Belle, Amelia, stm., 4 tons, 39 ft., (1883), G. W. Dench, Trenton.
Barr, H. A., sail, 900 tons, 220 ft., (1898), Algoma Central Steamship Line, Sault Ste. Marie. Lost.	Belle (The), stm., 31 tons, 66 ft., (1899), Edward Harris, Port Dover.
Barrett, Annie, stm., 42 tons, 58 ft., (1901), Mrs. Annie Pendergast, Kingston.	Belletta, stm., 2 tons, 21 ft., (1901), Alfred G. Peasey, Toronto.
Barrington, sail, 81 tons, 75 ft., (1887), Minister of Marine & Fisheries, Ottawa.	Benedict, E. G., sail, 155 tons, 104 ft., (1869), Thos. Lucas, Windsor.
	Benham, C. E., stm., 95 tons, 102 ft., (1865),
	Bennet, P., sail, 83 tons, 89 ft., (1869), Collins Bay Rafting & Forwarding Co., Kingston.

Ottawa Forwarding Co., Ltd., Ottawa.
 Bavaria, sail, 361 tons, 145 ft., (1878), Alex. Kidd, Sarnia, Ont.
 Bayfield, stm., 150 tons, 110 ft., (1864), Minister of Marine & Fisheries, Ottawa.
 Beatrice, stm., 31 tons, 63 ft., (1877), Wm. J. Keays, Sarnia.
 Beatrice, stm., 7 tons, 35 ft., (1900), Daniel Dashwood, Dunnville.
 Beatrice B., stm., 59 tons, 61 ft., (1897), T. G. Brigham, Ottawa.
 Beatrice M., stm., 36 tons, 60 ft., (1902), D. H. Clark, Collingwood.
 Beaubocage, paddle stm., 129 tons, 92 ft., (1878), M. Boyd, Bobcaygeon.
 Beauport, sail, 334 tons, 145 ft., (1873), Kingston & Montreal Forwarding Co., Ltd., Kingston.
 †Beaupre, paddle stm., 2068 tons, 270 ft., Richelieu & Ont. Nav. Co., Montreal.
 Beaver, stm., 18 tons, 73 ft., (1883), Thos. Harris, Gore's Landing.
 Beaver, stm., 34 tons, 48 ft., (1890), E. W. Brydges, Rat Portage.
 Beaver, stm., 41 tons, 64 ft., (1892), John Bonar, Cornwall.
 Beaver, stm., 13 tons, 36 ft., (1893), A. Lumsden, Ottawa.
 Beaver, stm., 16 tons, 47 ft., (1899), A. Lumsden, Ottawa.
 Beaver, stm., 92 tons, 78 ft., (1897), John Carew, Lindsay.
 Beaver, stm., 29 tons, 54 ft., (1899), John Chew, Thos. Chew, Midland.
 Beaver, stm., 3 tons, 32 ft., (1896), Edward Porter, Hamilton.

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Jas. Playfair and W. A. Clarke, Jr., Collingwood.
 Berry, stm., 57 tons, 62 ft., (1902), Sylvester Berry, Providence Bay.
 Bertha, stm., 18 tons, 51 ft., (1891), F. Montgomery, Parry Sound.
 Bertha May, stm., 20 tons, 43 ft., (1886), Chas. Mickie, Gravenhurst.
 †Berthier, paddle stm., 934 tons, 184 ft., (1870), Richelieu & Ont. Nav. Co., Montreal.
 Bertie E., stm., 8 tons, 29 ft., (1891), F. S. Wright, Leamington.
 Bessie, stm., 1 ton, 18 ft., (1901), James R. Dodsworth, Lakesfield.
 Betsey, sail, 19 tons, 45 ft., (1868), Lionel Yorke, Toronto.
 Billingsbley, F., sail, 150 tons, 111 ft., (1880), Ottawa Transportation Co., Ltd., Ottawa.
 Bismarck, sail, 302 tons, 131 ft., (1871), Kingston & Montreal Forwarding Co., Ltd., Thos. Edward, stm., 22 tons, 43 ft., (1884), Thos. Conlon, Thorold.
 Blake, Edward, sail, 312 tons, 138 ft., (1872), Thos. Mills, Kingston.
 Blanchard, J. B., sail, 150 tons, 110 ft., (1882), Ottawa Transportation Co., Ltd., Ottawa.
 Blazier, J. S., stm., 89 tons, 80 ft., (1867-1892), C. S. Boone, Toronto.
 Bluebell, stm., 12 tons, 48 ft., (1888), Hiram A. Calvin, Kingston.
 Bly, Nellie, stm., 13 tons, 42 ft., (1890), Wm. Hand, Port Dalhousie.
 Bob O'Link, sail, 15 tons, 35 ft., (1870), Zeno Orton Quick, Point Pelee Island.
 Bobs, stm., 9 tons, 36 ft., (1900), Geo. Gooderham, Toronto.

CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Bols , stm., 38 tons, 66 ft., (1900), J. B. Miller, Parry Sound.	Buckly , W. P., stm., 27 tons, 45 ft., (1870), James Buckley, Prescott.
Bohemian , paddle stm., 1107 tons, 195 ft., (1873-1900), Richelieu & Ont. Nav. Co., Montreal.	Buell , A. A., sail, 146 tons, 108 ft., (1902), Ottawa Trans. Co., Ltd., Ottawa.
Bonito , stm., 17 tons, 53 ft., (1879), J. Lee, L'Original.	Buffalo , sail, 88 tons, 104 ft., (1865), Abram H. Bradley, Dunnville.
Bonnechere , paddle stm., 13 tons, 35 ft., (1893), H. F. McLachlin, et al., Arnprior.	Burma , sail, 885 tons, 183 ft., (1901), The Calvin Co., Garden Island.
Booth , paddle stm., 347 tons, 140 ft., (1899), John R. Booth, Ottawa.	Business , stm., J. T. Mathews, Toronto.
Booth , Wm., stm., 46 tons, 67 ft., (1883), Henry Quinlan, Belleville.	Burstall , J., sail, 152 tons, 110 ft., (1880), Ottawa Transportation Co., Ltd., Ottawa.
Bowman , C. M., stm., 88 tons, 92 ft., (1897), C. M. Bowman and W. J. Strong, Southampton.	Burton , F. H., sail, 137 tons, 103 ft., (1853), Jno. Hart, Picton.
Boswell , F. J., sail, 153 tons, 110 ft., (1880), Ottawa Transportation Co., Ltd., Ottawa.	Butcher Boy , stm., 215 tons, 95 ft., (1879), Victoria Harbour Lumber Co., Ltd., Victoria Harbor.
Brace , stm., 9 tons, 21 ft., (1884), Jos. Brace, Hamilton.	Byers , R. O., sail, 143 tons, 106 ft., (1881), Ottawa Transportation Co., Ltd., Ottawa.
Brady , F. B., stm., 29 tons, 47 ft., (1901), Freeman Green, Dunnville.	Callender , stm., 2 tons, 20 ft., (1892), Isaac Dollery, Fairbank, York Co.
Brant , stm., 142 tons, 100 ft., (1899), Minister of Marine & Fisheries, Ottawa.	Calumet , stm., 22 tons, 54 ft., (1895), M. M. Boyd, Boyceygeon.
Breck , Marion L., sail, 298 tons, 127 ft., (1863), John McGibbon, Sarnia.	Calumet , sail, 154 tons, 111 ft., (1889), Ottawa Trans. Co., Ltd., Ottawa.
British Lion , stm., 42 tons, 55 ft., (1900), Hiram Easton, Merrickville.	Calvin , D. D., stm., 750 tons, 166 ft., (1883), The Calvin Co., Garden Island.
British Lion , sail, 80 tons, 84 ft., (1883), James Moss, Dunnville.	Cambria , stm., 937 tons, 174 ft., (1887), E. N. Potter, St. Catharines.
Brittain , R. C., stm., 213 tons, 142 ft., (1877),	Camilla , stm., 54 tons, 68 ft., (1890), D. L. McKinnon, Copper Cliff, Muskoka.
	Campbell , Alice M., stm., 29 tons, 54 ft., (1873),

†Brittanic, paddle stmr., 428 tons, 150 ft., (1866-1892), Northern Nav. Co. of Ontario, Ltd., Collingwood.

Brockville, stmr., 191 tons, 105 ft., (1898), Brockville Nav. Co., Ltd., Brockville.

Bronson, E. H., paddle stmr., 285 tons, 140 ft., (1895), Upper Ottawa Improvement Co., Ottawa.

Bronson, E. H., sail, 158 tons, 109 ft., (1878), Ottawa Transportation Co., Ltd., Ottawa.

Bronson, H. F., stmr., 137 tons, 91 ft., (1870), Montreal Transportation Co., Montreal.

Brooks, Alice, stmr., 17 tons, 40 ft., (1882), Edw. Brooks, Port Elgin, Ont.

Brothers, stmr., 18 tons, 39 ft., (1886), R. E. Nuttall, Pt. Arthur, and E. T. Morrow, Ft. William.

Brothers, sail, 14 tons, 44 ft., (1874), Jas. Thorburn, Kincardine.

Brown, Gordon, stmr., 38 tons, 69 ft., (1901), A. C. Brown, Port Stanley.

Brown, R. H., sail, 51 tons, 63 ft., (1882), John Cadarette, Belle River.

Bruce, stmr., 16 tons, 44 ft., (1882), Chas. Martin, Midland.

Brun, sail, 104 tons, 97 ft., (1881), The Muskoka & Nipissing Nav. Co., Gravenhurst.

Bruette, sail, 163 tons, 108 ft., (1899), Ottawa Transportation Co., Ltd., Ottawa.

Bridges, C. J., stmr., 39 tons, 62 ft., (1874), Department of Public Works, Ottawa.

Bridges, Edna, stmr., 176 tons, 75 ft., (1895), Mackinac River Nav. Co., Ltd., Rat Portage.

Bridgway, James, sail, 442 tons, 160 ft., (1884), Ogdensburg Coal & Towing Co., Ogdensburg, N. Y.

Canada, stmr., 312 tons, 123 ft., (1874), D. M. Butchart, Owen Sound.

†Canada, paddle stmr., 1768 tons, 248 ft., (1866), Richelieu & Ont. Nav. Co., Montreal.

Canada No. 1, sail, 85 tons, 96 ft., (—), Canada Ice Co., Ltd., Toronto.

Canada, No. 3, sail, 113 tons, 96 ft., (—), Canada Ice Co., Ltd., Toronto.

Canard, stmr., 1 ton, 21 ft., (1896), P. J. B. Belanger et al, Ottawa.

Capital, stmr., 2 tons, 30 ft., (1898), John Harper, et al, Ottawa.

Caponanning, stmr., 18 tons, 41 ft., (1888), The Ontario Lumber Co., Toronto.

Caprice, stmr., 6 tons, 44 ft., (1901), J. H. Wilcott, Beaumaris.

Carl, sail, 32 tons, 59 ft., (1894), C. E. Laverdiere, Rat Portage.

Carlton, stmr., 8 tons, 40 ft., (1878), W. F. Thomson, Parry Sound.

Carmana, stmr., 56 tons, 90 ft., (1889), T. S. Carman, Belleville.

Carmita, stmr., 9 tons, 39 ft., (1901), Mrs. E. J. McCluskey and Geo. W. Leach, North Bay.

Carne, Derry, stmr., 3 tons, 15 ft., (1900), W. D. Morris, Ottawa.

Caro, stmr., 14 tons, 38 ft., (1883), G. W. Draper, Rat Portage.

†Carolina, paddle stmr., 969 tons, 260 ft., Richelieu & Ont. Nav. Co., Montreal.

Caroline, stmr., 12 tons, 38 ft., (1900), Charles Martin, Midland.

Caroline, sail, 133 tons, 103 ft., (1872), The Department of Public Works, Ottawa.

CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Carrie, stm., 3 tons, 29 ft., (1869), G. Crawford, Hamilton.	Cincinnati, sail, 162 tons, 55 ft., (1895), Benj. A. Patterson, et al., Oakville.
Carrie L., paddle stm., 16 tons, 50 ft., (1900), Sam Lounsbury, Belle City.	Circe, stm., 3 tons, 28 ft., (1889), C. W. Tobey, Collingwood.
Carriella, stm., 35 tons, 70 ft., (1869), D. Long, Orillia.	City of Alberton, stm., 67 tons, 62 ft., (1897), Walter Ross, Rat Portage.
Carveth, Flora, sail, 190 tons, 115 ft., (1873), John McLellan, Bowmanville.	City of Bala, stm., 74 tons, 76 ft., (1901), John Burgess, Bala.
Casca, paddle stm., 590 tons, 140 ft., (1898), Otto R. Brener, London.	City of Belleville, stm., 101 tons, 89 ft., (1878), Can. Pacific Car & Passenger Transfer Co., Ltd., Prescott.
†Cas pian, paddle stm., 957 tons, 171 ft., (1846), Lake Ont. & Bay of Quinte Stbt Co., Kingston.	City of Chatham, stm., 341 tons, 125 ft., (1888), Chatham Nav. Co., Chatham.
Cataract, sail, 193 tons, 105 ft., (1874), F. McGibbon, Sarnia.	City of Collingwood, stm., 1387 tons, 213 ft., (1893), Northern Nav. Co. of Ontario, Ltd., Collingwood.
Catherine S., stm., 67 tons, 66 ft., (1896), John Short, Rat Portage.	City of Dresden, stm., 194 tons, 93 ft., (1872), Chas. D. Shirley, Blenheim.
Cavalier, sail, 299 tons, 137 ft., (1867), Mrs. Annie Glass, Sarnia.	City of Ladysmith, paddle stm., 35 tons, 69 ft., (1900), Chas. Ross, Port Maitland.
Cecce, stm., 11 tons, 31 ft., (1886), The Muskoka & Nipissing Nav. Co., Gravenhurst.	City of Midland, stm., 974 tons, 176 ft., (1890), Northern Nav. Co. of Ont., Ltd., Collingwood.
Cecelia, sail, 290 tons, 135 ft., (1865), Geo. Brooks, Port Dalhousie.	City of Mount Clemens, stm., 102 tons, 95 ft., (1880), Jas. W. Steinhoff, Wallaceburg.
Centennial, sail, 66 tons, 81 ft., (1876), H. O. Brown, Welland.	†City of Owen Sound, paddle stm., 754 tons, 129 ft., (1867-1900), T. M. Kirkwood, Toronto.
Ceylon, sail, 908 tons, 205 ft., (1891), The Calvin Co., Ltd., Garden Island.	City of Peterboro, stm., 230 tons, 100 ft., (1876), Peterborough Nav. Co., Peterborough.
Challenger, stm., 108 tons, 88 ft., (1886), The Minister of Agriculture, Ottawa.	City of Stratford, stm., 4 tons, 32 ft., (1874), Andrew J. Jeffrey, Stratford.
Chamberlain, C. W., stm., 385 tons, 127 ft., (1881), Chas. Beck, Penetanguishene.	City of Toronto, paddle stm., 782 tons, 150 ft., Richelieu & Ont. Nav. Co., Montreal.

Champion, sail, 50 tons, 66 ft., (1872),
 Michael P. Thibert, Belle River.
 Champion, paddle stmr., 142 tons, 94 ft., (1868),
 Geo. Crandell, Lindsay.
 Chance, stmr., 5 tons, 43 ft., (1895), John Hew-
 ton, Kingston.
 Chapeau, sail, 42 tons, 63 ft., (1889), W. J.
 Pourpore, Morrisburg.
 Charlie M., stmr., 50 tons, 54 ft., (1897), Chas.
 Mickle, Gravenhurst.
 Charlton, stmr., 389 tons, 135 ft., (1862), Victoria
 Harbor Lumber Co., Ltd., Victoria Harbor.
 Chaudiere, sail, 72 tons, 66 ft., (1896), J. A.
 Clarke, Sturgeon Falls.
 Cherokee, sail, 365 tons, 151 ft., (1874), Kings-
 ton & Montreal Forwarding Co., Ltd.,
 Kingston.
 Chevroux, sail, 27 tons, 52 ft., (1902), Upper
 Ottawa Improvement Co., Ltd., Ottawa.
 Chicora, paddle stmr., 931 tons, 221 ft., (1864),
 Niagara Nav. Co., Ltd., Toronto.
 Chicoutimi, paddle stmr., 110 tons, 92 ft., (1881),
 Victoria Park Stbt. Co., Ltd., Toronto.
 Chieftain, paddle stmr., 435 tons, 136 ft., (1874),
 The Calvin Co., Ltd., Garden Island.
 Chieftain, stmr., 40 tons, 52 ft., (1889), F. W.
 Coates, Fort Frances.
 Child, R. F., stmr., 5 tons, 35 ft., (—), H. D.
 Gamble, Toronto.
 #Chippewa, paddle stmr., 1514 tons, 308 ft.,
 (1893), Niagara Nav. Co., Ltd., Toronto.
 Chippewa, sail, 192 tons, 94 ft., (1874), Muskoka
 Mill & Lumber Co., Toronto.
 Chub, stmr., 57 tons, 71 ft., (1893), John Corson,
 Hamilton.
 Chummy stmr., 5 tons, 46 ft., (1898), Capital
 Sand & Brick Co., Ottawa.

City of Windsor, stmr., 511 tons, 117 ft., (1888),
 D. L. McKinnon, Sudbury.
 City Queen, stmr., 69 tons, 70 ft., (1900), A. L.
 Nickerson and C. T. Nickerson, Midland.
 Clara, stmr., 12 tons, 44 ft., (1877), Wm. Penn
 Jaynes, Barrie.
 Clara, sail, 232 tons, 130 ft., (1874), James
 Deherty, Belleville.
 Clara L., sail, 45 tons, 75 ft., (1885), Wm. Hand,
 Port Dalhousie.
 Clarence, sail, 139 tons, 110 ft., (1881), The
 Ottawa Transp. Co., Ltd., Ottawa.
 Clark Bros., stmr., 92 tons, 80 ft., (1890-1901),
 Mrs. Mary Clark, Toronto.
 Clark, J. C., stmr., 145 tons, 85 ft., (1864-1876),
 Sarnia Transportation Co., Ltd., Sarnia.
 Clarke, sail, 145 tons, 108 ft., (1881), The
 Ottawa Transp. Co., Ltd., Ottawa.
 Cleopatra, stmr., 104 tons, 113 ft., (1893), A. E.
 Gooderham and T. G. Blackstock, Toronto.
 Clinton, stmr., 430 tons, 138 ft., (1874), Matthews
 Line, Toronto.
 Clipper, stmr., 4 tons, 31 ft., (1880), A. Thomp-
 son, Ottawa.
 Clipper, stmr., 53 tons, 69 ft., (1897), H. F. Ken-
 dall, et al., Rat Portage.
 Clorita, sail, 44 tons, 64 ft., (1898), Geo. H.
 Gooderham, Toronto.
 Clyde, stmr., 29 tons, 61 ft., (1888), A. Lumsden,
 Ottawa.
 Coboconk, paddle stmr., 103 tons, 80 ft., (1876),
 Mrs. C. McFadden, Fenelon Falls.
 Coboconk, paddle stmr., 9 tons, 30 ft., (1902),
 Wm. Shields, Coboconk.
 Collier, S. & J., sail, 146 tons, 106 ft., (1872),
 A. M. Palmatier, Picton.

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CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

<p>Collop, J. T., paddle stmr., 63 tons, 58 ft., (1894), J. W. Taylor, Wallaceburg. Cologne, paddle stmr., 18 tons, 47 ft., (1902), Gillies Bros. Co., Ltd., Braeside. Colonel By, stmr., 9 tons, 45 ft., (1868), P. Eligh, Burrill's Rapids. Columbia, sail, 84 tons, 101 ft., (1885), Benj. Tett, Bedford Mills. †Columbian, paddle stmr., 874 tons, 175 ft., (1892), Richelieu & Ont. Nav. Co., Montreal. Comet, stmr., 22 tons, 55 ft., (1876), R. E. Moore and W. Vandusen, Harriston. Comet, stmr., 20 tons, 60 ft., (1887), The Rathbun Co., Deseronto. Comet, stmr., 8 tons, 45 ft., (1895), Josiah Ball, Fesserton. Comfort, stmr., 14 tons, 43 ft., (1891), T. W. Whitely and W. W. Stover, Sombra. Commodore, stmr., 40 tons, 59 ft., (1885), Jos. Ganley, Sault Ste. Marie. Commodore, paddle stmr., 175 tons, 96 ft., (1867), Geo. Crandell, Lindsay. Commodore, stmr., 3 tons, 36 ft., (1895), John Moore, Carleton Place. Condor, sail, 567 tons, 180 ft., (1888), Kingstons & Montreal Forwarding Co., Ltd., Kingston. Conqueror, stmr., 25 tons, 60 ft., (1886), E. Adamson, Toronto. Constance, stmr., 1 ton, 18 ft., (1885), Jas. Turnbull, Hamilton. Constance, stmr., 185 tons, 115 ft., (1891), The Minister of Customs, Ottawa. Constance, stmr., 52 tons, 82 ft., (1898), G. H. Homer and R. Wade, Gravenhurst.</p>	<p>Cranell, Levi, sail, 157 tons, 111 ft., (1884), Ottawa Trans. Co., Ottawa. Crawford, A. V., stmr., 51 tons, 72 ft., (1891), Mrs. Ella B. Boone, Toronto, Ont. Creole, stmr., 21 tons, 50 ft., (1897), Manley Chew, Midland. Cricket, stmr., 5 tons, 36 ft., (1894), Hon. J. Israel Tarte, Ottawa. Crombie, W. A., sail, 155 tons, 110 ft., (1877), Ottawa Transportation Co., Ottawa. Cross, A. D., stmr., 47 tons, 49 ft., (1897), Mrs. Ida M. Armstrong, Port Colborne, Ont. Cross, Wm., stmr., 22 tons, 43 ft., (1897), L. R. Johnstone, Wabigoon. Cruiser, stmr., 55 tons, 83 ft., (1877), The Cruiser Club, Toronto. Crusier, stmr., 27 tons, 39 ft., (1880-1898), Kewating Lumbering & Mfg. Co., Ltd., Hamilton. Cuba, stmr., 931 tons, 177 ft., (1875), Merchants Line, G. E. Jaques & Co., Mngrs., Montreal. Cultivateur, paddle stmr., 362 tons, 170 ft., (1874), Richelieu & Ont. Nav. Co., Montreal. Cunningham, James, sail, 176 tons, 110 ft., (1877), Ottawa Trans. Co., Ltd., Ottawa. Curlew, stmr., 9 tons, 35 ft., (1895), H. A. Cartwright, Belleville. Curlew, stmr., 3 tons, 29 ft., (1891), F. H. Gooch, Toronto. Curlew, stmr., 158 tons, 116 ft., (1892), Minister of Marine and Fisheries, Ottawa. Curtis, H. C., stmr., 36 tons, 52 ft., (1878), W. H. Davis, Ottawa. Cuthbert, Annie, sail, 36 tons, 55 ft., (1874), C. D. A. Heath, Hamilton.</p>
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Cook, A. B., stm., 34 tons, 54 ft., (1885), James Bampton, Welland, Ont.
 Cooper, R. W., sail, 161 tons, 110 ft., (1880), Ottawa Transportation Co., Ltd., Ottawa.
 Cora, stm., 23 tons, 55 ft., (1902), J. B. Bowerman, Port Perry.
 Cora, stm., 4 tons, 32 ft., (1887), Oliver B. Sheppard, Toronto.
 Coral, sail, 26 tons, 47 ft., (1874), Geo. Blowers, Port Credit.
 Corisande, sail, 276 tons, 137 ft., (1873), John C. Miller, Parry Sound.
 ‡Corona, paddle stm., 1274 tons, 270 ft., (1896), Niagara Nav. Co., Ltd., Toronto.
 Coronet, sail, 24 tons, 58 ft., (1887), Lionel Yorke, Toronto.
 Corrella, stm., 4 tons, 30 ft., (1889), M. Ken-ville, Brockville.
 ‡Corsecan, paddle stm., 946 tons, 179 ft., (1870), Richelieu & Ont. Nav. Co., Montreal.
 Couchiching, sail, 105 tons, 92 ft., (1883), The Ontario & Western Lumber Co., Ltd., Rat Portage.
 Covell, Almada, stm., 9 tons, 32 ft., (1868), Nathaniel Dickey and John McGinty, Toronto, Ont.
 Crabsman, sail, 65 tons, 99 ft., (1883), T. Mills, Kingston.
 Crabsman, sail, 266 tons, 132 ft., (1873), John Strong, Port Elgin.
 Craig, Anna, sail, 260 tons, 129 ft., (1870), John McArthur, Toronto.
 Craig, Annie, stm., 80 tons, 78 ft., (1880), Eugene O'Keefe, Toronto.
 Craig, Janet, stm., 12 tons, 50 ft., (1884), W. G. Workman, Ottawa.

Cuyler, Geo. W., stm., 64 tons, 56 ft., (1880), B. H. Turner, Little Current.
 Cuzner, John, sail, 46 tons, 82 ft., (1893), Robt. McLeod, Ottawa.
 Cygnet, sail, 27 tons, 44 ft., (1879), Thos. McGraw and R. D. Ewing, Toronto.
 Cyprus, sail, 6 tons, 30 ft., (1879), D. J. MacMurchy, Toronto.
 Cyrenian, sail, 376 tons, 135 ft., (1879), J. E. Wellscroft, Southampton.
 Daisy, stm., 2 tons, 30 ft., (1890), Claude McLauchlin, Arrprior.
 Daisy, stm., 2 tons, 39 ft., (1890), G. B. Magee, Merrickville.
 Daisy, stm., 15 tons, 41 ft., (1893), Minister of Public Works, Ottawa.
 Dakota, sail, 516 tons, 170 ft., (1885), Kingston & Montreal Forwarding Co., Ltd., Kingston.
 Daly, Sarah, stm., 25 tons, 49 ft., (1869), John Jesmer, Sr., Cornwall.
 Dandy, sail, 40 tons, 80 ft., (1894), Capital Sand & Brick Co., Ltd., Ottawa.
 Danforth, F. L., sail, 643 tons, 187 ft., (1872), T. & J. Conlon, Thorold.
 Darling, Grace, stm., 28 tons, 50 ft., (1886-1897), A. J. Shaw, Parry Sound.
 Darrow, sail, 91 tons, 49 ft., (1897), David Davidson, Penetanguishene.
 Dauntless, stm., 8 tons, 44 ft., (1884), S. C. MacDonald, Dunnville.
 Dauntless, stm., 3 tons, 28 ft., (1900), Thos. Robson, Fencelon Falls.
 Dauntless, sail, 156 tons, 105 ft., (1867), M. J. Glass, Sarnia.
 Davidson, sail, 150 tons, 110 ft., (1882), The Ottawa Transportation Co., Ltd., Ottawa.

Davidson, Fred, stm., 43 tons, 62 ft., (1887), Chas. L. D. Sims, Little Current.	Donnelly, Horace, sail, 158 tons, 110 ft., (1879), Ottawa Transportation Co., Ltd., Ottawa.
David, sail, 81 tons, 46 ft., (1896), David Davidson, Penetanguishene.	Doone, Lorna, stm., 5 tons, 36 ft., (1893), H. Pellat, Toronto.
†Davis, Wm., stm., 40 tons, 63 ft., (1897), J. T. Davis, Ottawa.	Doone, Lorna, stm., 25 tons, 42 ft., (1896), Mrs. Carrie E. Pratt, Parry Sound.
Davis, W. L., stm., 46 tons, 46 ft., (1882), James Garrett, Sault Ste. Marie.	Dora, stm., 48 tons, 61 ft., (1889), Alex. Lumsden, Ottawa.
Dawn, stm., 20 tons, 48 ft., (1888), S. Purser, Hall's Bridge.	Dorcas, stm., 3 tons, 31 ft., (1897), Mrs. Electa Stevenson, Gananogue.
Day, Sarah E., stm., 5 tons, 35 ft., (1886), W. M. Tyson, Wiarton.	Dorothe, stm., 8 tons, 33 ft., (1900), Peter Payette, Penetanguishene.
Defiance, sail, 89 tons, 102 ft., (1859), R. McLaren, St. Catharines.	Dortha, stm., 51 tons, 71 ft., (1894), Geo. T. Ford, Brockville.
Defiance, sail, 26 tons, 49 ft., (1845), C. McCrancy, Toronto.	Dot, stm., 2 tons, 31 ft., (1891), R. W. Stephens, Ottawa.
De Graff, J. H., stm., 15 tons, 7 ft., (1882), Delaware, sail, 152 tons, 105 ft., (1880), A. W. Hepburn, Ottawa.	Dotie, stm., 1 ton, 25 ft., (1888), Mrs. Jeannie F. Ferguson, North Bay.
Delila, stm., 4 tons, 32 ft., (1896), James David, Carmanah.	Doud, Reuben, sail, 308 tons, 137 ft., (1873), Albert I. Forster, Toronto.
Delisle, stm., 46 tons, 62 ft., (1869), Minister of Public Works, Ottawa.	Douglas, stm., 5 tons, 30 ft., (1888), The Georgian Bay Consolidated Lumber Co., Waukegan, Wis.
Delta, sail, 74 tons, 47 ft., (1898), David Davidson, Penetanguishene.	Douglas, Geo., stm., 42 tons, 56 ft., (1880), James Cannon, Owen Sound.
Demers, Alfred, sail, 131 tons, 105 ft., (1878), Department of Public Works, Ottawa.	Dow, Geo., sail, 15 tons, 42 ft., (1875), Wm. McCulla, Port Credit.
Denmark, sail, 305 tons, 134 ft., (1867), Calvin Co., Ltd., Garden Island.	Downing, Madeline, stm., —, —, (—), Walkerville, Ont.
Denness, C. W., stm., 17 tons, 41 ft., (1874), Minister of Public Works, Ottawa.	Drake, L. W., sail, 397 tons, 155 ft., (1881), Arthur W. Hepburn, Picton.
Derby, stm., 3 tons, 35 ft., (1897), C. G. Stackhouse, Ottawa.	Dream, stm., 12 tons, 50 ft., (1886), The Minister of Customs, Ottawa.
Deseronto, stm., 55 tons, 62 ft., (1879), Deseronto Nav. Co., Deseronto.	Dredge Frank, sail, 154 tons, 78 ft., (1892), A. F. Bowman, Southampton.

Despatch, stm., 33 tons, 71 ft., (1878), J. H. McMillar, Gore Bay, Algoma.

Devenish, stm., 3 tons, 32 ft., (1886), W. Packer, Wood Township, Simcoe Co.

Dickson, paddle stm., 16 tons, 28 ft., (1890), The Dickson Co., Peterborough.

Dixie, sail, 97 tons, 50 ft., (1898), David Davidson, Penetanguishene.

Dobson, R. H., stm., 44 tons, 75 ft., (1902), Dobson & McLeod, Southampton.

Dolce, stm., 5 tons, 42 ft., (1894), J. W. Church, Gananoque.

Dolphin, stm., 70 tons, 74 ft., (1881), Ottawa Transportation Co., Ltd., Ottawa.

Dolphin, stm., 24 tons, 49 ft., (—), The Rathbun Co., Deseronto.

Dolphin, sail, 71 tons, 46 ft., (1896), David Davidson, Penetanguishene.

Dolphin, stm., 13 tons, 50 ft., (1871), Savanagh Lumber Co., Ltd., Penetanguishene.

Dolphin E., 6 tons, 36 ft., (1901), Miss Minnie McVicar, Paris.

Dominion, paddle stm., 46 tons, 79 ft., (1884), Francis Burke, Lindsay.

Dominion, stm., 478 tons, 135 ft., (1868), Mrs. Henrietta Peck, Windsor.

Dominion, stm., 138 tons, 95 ft., (1890), David Flock, Chatham.

Dⁿ, sail, 86 tons, 45 ft., (1892), David Davidson, Penetanguishene.

D^{son}, B., sail, 162 tons, 111 ft., (1881), D^{ttawa} Trans. Co., Ltd., Ottawa.

D^{nacona}, stm., 1906 tons, —, (1900), R. O. Dnd A. B. McKay, Hamilton.

D^{nelly}, paddle stm., 498 tons, 142 ft., (1868), D^{onnelly Salvage & Wkg. Co., Ltd., Kingston.}

Dredge Hackett, sail, 50 tons, 62 ft., (1897), C. M. Bowman, et al., Southampton.

Dredge No. 9, sail, 127 tons, 71 ft., (—), A. G. McKay, Owen Sound.

Druid, stm., 503 tons, 160 ft., (1902), Minister of Marine and Fisheries, Ottawa.

Dude, sail, 3 tons, 28 ft., (1880), A. Campbell, Lakeport.

Dudley, F., sail, 154 tons, 108 ft., (1879), The Ottawa Transportation Co., Ltd., Ottawa.

Dudley, Herbert, sail, 199 tons, 120 ft., (1875), DeWitt Carter, Colborne.

Dunbar, C. F., stm., 33 tons, 47 ft., (1871), James Prendergast, Cornwall.

Dundee, sail, 262 tons, 125 ft., (1870), Hugh Kelly, Toronto.

Dunmore, sail, 590 tons, 182 ft., (1895), Montreal Transportation Co., Montreal.

Dunn, Stuart H., sail, 458 tons, 164 ft., (1877-1889), A. J. Foster and F. A. Ure, Toronto.

Dunscornb, J. W., sail, 98 tons, 90 ft., (1871), Government of Canada, Ottawa.

Dymont, N. stm., 59 tons, 73 ft., (1900), N. Dymont, Barrie.

Eagle, stm., 14 tons, 43 ft., (1875), A. Miller, Port Elgin.

Eagle, stm., 12 tons, 44 ft., (1887), W. R. Jowett, Bayfield.

Eagle, stm., 10 tons, 34 ft., (1898), James Moreau, Port Severn.

Earl, stm., 75 tons, 72 ft., (1890), Minister of Agriculture, Ottawa.

Earl, stm., 18 tons, 53 ft., (1893), J. B. McLeod and Robt. Dobson, Southampton.

Eccles, Katie, sail, 122 tons, 95 ft., (1877), James J. McCallum, Colborne.

CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Echo, stm., 5 tons, 27 ft., (1901), John S. M. Alexander, Peterborough.	Emulator, stm., 25 tons, 49 ft., (1890), A. Walton, Magnetawan.
Echo, sail, 50 tons, 69 ft., (1869), D. C. Smith, Belleville.	Endress, Bertha, stm., 32 tons, 42 ft., (1876), H. A. Duncan, Sault Ste. Marie.
Eddy, C. F., stm., 16 tons, 45 ft., (1902), Blind River Towing Co., Ltd., Sarnia.	Energy, stm., 116 tons, 81 ft., (1883), J. Hackett, Amherstburg.
Eddy, Ella Clarissa, sail, 141 tons, 111 ft., (1881), Ottawa Transportation Co., Ltd., Ottawa.	England, sail, 341 tons, 148 ft., James Buckley, Prescott.
Edith, stm., 2 tons, 22 ft., (1883), J. P. Clark, Toronto.	Enterprise, stm., 18 tons, 58 ft., (1892), Levi Young, Port Bruce.
Edith, stm., 29 tons, 54 ft., (1902), Thos. E. Smith, Rat Portage.	Enterprise, stm., 148 tons, 81 ft., (1869), G. F. Marsh, Huntsville, Ont.
Edmond, stm., 39 tons, 56 ft., (1879), B. Tett, Bedford Mills.	Enterprise, sail, 105 tons, 90 ft., (1871), Ontario Bank, Toronto.
Edna, stm., 9 tons, 31 ft., (1891), Robt. Douglass, Sault Ste. Marie.	Enterprise, sail, 16 tons, 40 ft., (1864), F. A. Greatwood, Toronto.
Edna, stm., 55 tons, 64 ft., (1898), Mrs. Carrie E. Pratt, Parry Sound.	Enterprise, stm., 13 tons, 49 ft., (1893), W. J. Poupore, Ottawa.
Edna, stm., 12 tons, 36 ft., (1899), James R. Lawry, Hamilton.	Equal Rights, stm., 6 tons, 36 ft., (1890), Mrs. E. A. Langford, Dorset.
Edwards, W. C., sail, 154 tons, 111 ft., (1880), Ottawa Transportation Co., Ltd., Ottawa.	Eric, stm., 2 tons, 18 ft., (1902), Edna R. Price, St. Catharines.
Effort, sail, 51 tons, 72 ft., (1899), Mrs. Marion Ribble, Dresden.	Erie Belle, sail, 275 tons, 125 ft., (1873), D. Manson, Port Hope.
Eleanor, stm., 26 tons, 56 ft., (1895), E. Martin, Port Maitland.	Erie Queen, sail, 217 tons, 115 ft., (1874), James O'Guy, et al., Oshawa.
Electric, stm., 49 tons, 69 ft., (1887), John J. Wright, Toronto.	Erie Stewart, sail, 230 tons, 117 ft., (1874), Fred Sole, Sarnia.
Elite, paddle stm., 22 tons, 60 ft., (1894), Seth Chapman, Gore Bay.	Erin, stm., 651 tons, 174 ft., (1881), T. & J. Conlon, Thorold.
Elizabeth Ann, sail, 18 tons, 44 ft., (1869), J. Adamson, Toronto.	Escort, stm., 40 tons, 44 ft., (1894), Carter Bros., Port Colborne.
Elk, stm., 9 tons, 40 ft., (1893), _____,	Espanola, stm., 7 tons, 36 ft., (1897), Spanish River Paper & Pulp Co., Toronto.
Ella, stm., 15 tons, 49 ft., (1898), J. A. Dease and _____,	Esperanza, stm., 17 tons, 57 ft., (1876), Mrs. H. _____.

Estella, stm., 9 tons, 38 ft., (1891), Edwin S. Pratt, Parry Sound.
 Estelle, stm., 8 tons, 31 ft., (1887), Chas. Grylls, Lakefield.
 Esturian, paddle stmr., 139 tons, 94 ft., (1897), The Trent Valley Nav. Co., Bobcaygeon.
 Esturion, paddle stmr., 118 tons, 96 ft., (1884), The Trent Valley Nav. Co., Bobcaygeon.
 Ethel, stm., 13 tons, 42 ft., (1887), John Hastie, Sheguindah, Ont.
 Ethel, stm., 10 tons, 39 ft., (1896), The Cameron Islands Mining & Development Co., Ltd., Rat Portage.
 Ethel May, stm., 13 tons, 46 ft., (1897), A. Mortimer, Medora Township, Muskoka.
 Euna, stm., 6 tons, 36 ft., (1878), D. W. Crowe, Chatham.
 Euredyce, paddle stmr., 319 tons, 142 ft., (1863), The Donnelly Salvage & Wrecking Co., Ltd., Kingston. Name changed to Donnelly.
 Eureka, stm., 170 tons, 94 ft., (1891), The Minister of Public Works, Ottawa.
 Eva, stm., 12 tons, 33 ft., (1870), Geo. Robertson, Jr., Kingston.
 Eva, stm., 34 tons, 72 ft., (1881), Irene Crandell, Lindsay.
 Eva Belle, stm., 10 tons, 34 ft., (1890), Wm. White, Midland.
 Eva Belle, stm., 10 tons, 39 ft. (1892), J. C. Judd, Morton.
 Evangeline, stm., 24 tons, 60 ¹/₂ ft., (1869), Ch. Sims and Thos. C. Sims, Little Creek, Algoma.
 Evans, Robt., 29 tons, 52 ft., (1885), Keewatin Lumbering & Mfg. Co., Ltd., Hamilton.

Ellen, stm., 25 tons, 62 ft., (1901), F. Huck, Rockport.
 Elm, sail, 146 tons, 150 ft., (1873), Alex Gunn, Kingston.
 Elsc, J. C., paddle stmr., 33 tons, 44 ft., (1893), Georgian Bay Lumber Co., Waubaushene.
 Emarov, sail, 79 tons, 86 ft., (1879), Nelson Flowers, Ottawa.
 Emerald, sail, 463 tons, 137 ft., (1875), G. J. Cook, Toronto.
 Emerald, stm., 322 tons, 139 ft., (1872), F. McMaster, Deseronto.
 Emerald, sail, 322 tons, 139 ft., (1872), F. McMaster, Deseronto.
 Emile, stm., 12 tons, 50 ft., (1892), E. G. Lavardure, Ottawa.
 Emily, sail, 29 tons, 62 ft., (1890), E. Parent, Belle River.
 Emily May, sail, 31 tons, 70 ft., (1879), J. Laffner, Kingston.
 Emma, stm., 146 tons, 89 ft., (1894-1901), Mrs. Carrie E. Pratt, Parry Sound.
 Emma, stm., 6 tons, 34 ft., (1894), R. S. Watts, Hamilton.
 Emma, stm., 2 tons, 28 ft., (1897), W. O. Spearman, Ottawa.
 Emma C., stm., 1 ton, 24 ft., (1890), L. J. Coursoles, Ottawa.
 Empress, stm., 129 tons, 95 ft., (1883), The Ont. & Western Lumber Co., Ltd., Rat Portage.
 Empress, sail, 62 tons, 84 ft., (1876), James P. Pothery, Belleville.
 Empress, stm., 36 tons, 63 ft., (1891), Mary E. Perkins, Sturgeon Falls.
 Empress Victoria, stm., 106 tons, 76 ft., (1894), F. C. F. Marsh, Huntsville.

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CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Evelyn, stm., 85 tons, 67 f , (1892), French River Tug Co., Windsor.	Florence, stm., 26 tons, 54 ft., (1884), Lorenzo McKenny, Huntsville.
Evelyn, sail, 97 tons, 90 ft., (1867), Wm. Myles, Kingston.	Florence, stm., 3 tons, 36 ft., (1886), Chas. Elliott, Bradford.
Everard, stm., 25 tons, 51 ft., (1900), M. Graham, Kagawong.	Florence, sail, 32 tons, 60 ft., (1862), H. Compeau, Belle River.
Everett, Mary, sail, 198 tons, 120 ft., (1867-1887), John Cooper, Wallaceburg.	Florence M., stm., 8 tons, 44 ft., (1898), J. McDonald and H. Green, Sault Ste. Marie.
Express, stm., 4 tons, 35 ft., (1887), John B. Bowerman, Port Perry.	Florissant, stm., 3 tons, 30 ft., (1891), C. Elford, Toronto.
Express, paddle stm., 99 tons, 100 ft., (1868), Francis McDougall, Ottawa.	Flyer, stm., 4 tons, 39 ft., (1892), John Rogers, Port Sandfield.
Fabiola, sail, 131 tons, 95 ft., (1852-1876), James Swift, Kingston.	Forester, stm., 5 tons, 32 ft., (1899), Thos. R. Woodside, Port Arthur.
Fair, Bella, stm., 7 tons, 50 ft., (1881), W. D. Kelley, Bridgenorth.	Forrester, stm., 3 tons, 30 ft., (1885), J. Flintoft, Sarnia.
Fairina, sail, 17 tons, 46 ft., (1880), Jas. Johns, Southampton.	Fort Frances, sail, 26 tons, 52 ft., (1879), Fredk. Thomas Hooper, Rat Portage.
†Fairmount, stm., Montreal Transportation Co., Montreal.	Fortune, stm., 199 tons, 104 ft., (1875), Algoma Central S. S. Line, Sault Ste. Marie.
Fairy, stm., 23 tons, 52 ft., (1878), P. T. Young, Young's Point.	Forward, Jessie, stm., 6 tons, 36 ft., (1896), J. F. Walsh, Napanee.
Fairy Queen, 2 tons, 22 ft., (1888), Andrew Newlands, Galt.	Foster, Anna E., sail, 39 tons, 66 ft., (1877), W. Foster, Owen Sound.
Falcon, stm., 13 tons, 40 ft., (1874), J. G. Richardson, Brockville.	Four Macks, stm., 1 ton, 25 ft., (1889), J. C. McNie, et al., Carleton Place.
Falconer, Annie, sail, 175 tons, 108 ft., (1867), Geo. Plunkett, Cobourg.	Frances, stm., 47 tons, 55 ft., (1864), T. H. Kirby, Ottawa.
Fanny, stm., 5 tons, 31 ft., (1878), Chas. Clarke, Collingwood.	Frances, Minnie, sail, 89 tons, 101 ft., (1885), G. B. Magee, Merrickville.
Fanny, sail, 18 tons, 43 ft., (1868), John Courson, Brighton.	Frankie, stm., 24 tons, 41 ft., (1888), John Lee, Wallaceburg.
Fearless, stm., 46 tons, 56 ft., (1886), Mrs. Sarah M. Carman, Iroquois.	Fraser, Alexander, paddle stm., 320 tons, 140 ft., (1890), Upper Ottawa Improvement Co., Ottawa, Ont.

Fida, stm., 2 tons, 24 ft., (—), Ben Almos, Jack Fish.
 Fidelia, stm., 9 tons, 38 ft., (1897), W. C. Crowther, Toronto.
 Filgate, paddle stm., 425 tons, 158 ft., (1879), O. Gillespie, Cornwall.
 Fire Fly, paddle stm., 214 tons, 108 ft., (1844-1855), Richelieu & Ont. Nav. Co., Montreal.
 Fisher, Eliza, sail, 137 tons, 94 ft., (1867), R. C. Smith, Port Hope.
 Fisher River, sail, 111 tons, 124 ft., (1882), The Dept. of Public Works, Ottawa.
 Fitzhugh, Henry, sail, 300 tons, 138 ft., (1866), Parry Sound Lumber Co., Ltd., Parry Sound.
 Flash, stm., 5 tons, 26 ft., (1899), Mrs. Margaret Breeze, Peterborough.
 Fleetwing, sail, 162 tons, 108 ft., (1863), Jos. Cochrane, et al., Colborne.
 Fleur de Mai, stm., 7 tons, 34 ft., (1901), Isaac Laroeque, Sturgeon Falls.
 Flight, stm., 37 tons, 57 ft., (1875), C. Jones, Brockville.
 Flora, stm., 5 tons, 42 ft., (1892), W. J. Poupore, Morrisburg.
 Florence, stm., 40 tons, 74 ft., (1889), Canada Lumber Co., Carleton Place.
 Florence, stm., 6 tons, 48 ft., (1901), E. P. Ainsworth, Brighton.
 Florence, stm., 133 tons, 91 ft., (1883), Wm. Clarke, Toronto.
 Floret, Amherstburg.
 Florence, stm., 113 tons, 91 ft., (1885), J. Hackett, Amherstburg.
 Florence, stm., 3 tons, 28 ft., (1894), John Millington, Fredericksburg.
 Florence, stm., 62 tons, 81 ft., (1881), The Ottawa Transportation Co., Ltd., Ottawa.

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Fraser, B. M., stm., 50 tons, 69 ft., (—), John Charlton, Lyndoch.
 Fred, sail, 157 tons, 110 ft., (1881), The Ottawa Transportation Co., Ottawa.
 Freddie, stm., 5 tons, 28 ft., (1897), F. V. Rodgers, Richards Landing.
 Friendship, sail, 24 tons, 60 ft., (1876), Mrs. Margaret Warden, Bronte.
 Frontenac, stm., 111 tons, 89 ft., (1901), The Calvin Co., Ltd., Garden Island.
 Fulton, E. A., sail, 288 tons, 137 ft., (1863), Frank Jackson and J. R. Philp, Toronto.
 Galatia, stm., 46 tons, 60 ft., (1898), L. R. Johnstone, et al., Wabigoon.
 Gale, stm., 3 tons, 22 ft., (—), Foley Mines Co., Ltd., Mine Centre.
 Gales, John, sail, 42 tons, 70 ft., (1879), Demas Poisson, Belle River.
 †Garden City, paddle stm., 637 tons, 177 ft., (1892), Niagara, St. Catharines & Toronto Nav. Co., Ltd., Toronto.
 Garibaldi, sail, 123 tons, 95 ft., (1861), John Breen, Port Hope.
 Garnet, paddle stm., 152 tons, 124 ft., (1885), Montreal & Cornwall Nav. Co., Cornwall.
 Garnet, stm., 19 tons, 53 ft., (1889), James P. MacDonald, Minasaga Island.
 Gauthier, A., sail, 137 tons, 111 ft., (1884), Ottawa Transportation Co., Ltd., Ottawa.
 Gauthier, Harold, stm., 9 ft., 36 tons, (1888), O. E. Fleming, Windsor.
 Geisha, stm., 20 tons, 50 ft., (1900), John Hendry, Toronto.
 Gem, stm., 11 tons, 33 ft., (1897), Thos. Smith, Rat Portage.

CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

<i>Gen</i> stm., 9 tons, 35 ft., (1897), A. S. Smith, Stephenson Tp., Muskoka.	Grace, paddle strmr., 11 tons, 42 ft., (1894), M. A. Jessemer, Cornwall.
<i>Gen</i> Weitzel, stm., 32 tons, 57 ft., (1881), W. H. Plummer, Sault Ste. Marie.	Granger, sail, 21 tons, 50 ft., (1899), John Flynn, Picton.
<i>Gen</i> Wolseley, paddle strmr., 123 tons, 103 ft., (1884), John Nisbet, Owen Sound.	Grant, sail, 146 tons, 112 ft., (1887), The Ottawa Transportation Co., Ltd., Ottawa.
George, sail, 152 tons, 109 ft., (1881), The Ottawa Transportation Co., Ltd., Ottawa.	Grant, Kate, sail, 47 tons, 60 ft., (1880), Denis Parent, Sandwich.
Georgia, stm., 28 tons, 43 ft., (1885), John Sulli- van, Little Current.	Granthem, sail, 325 tons, 140 ft., (1873), Ira A. Breck, Garden Island.
Georgina, stm., 44 tons, 74 ft., (1898), J. Maloney, Pt. Arthur.	Gravenhurst, stm., 29 tons, 52 ft., (1902), Peter Campbell, Muskoka.
Geraldine, stm., 65 tons, 66 ft., (1893), J. Galna, Parry Sound.	Gray, Dolly, stm., 5 tons, 35 ft., (1900), Wm. Howard, Baysville.
German, W. M., stm., 28 tons, 58 ft., (1888), James Law, Port Dover.	Gray, John, sail, 156 tons, 110 ft., (1881), Ottawa Transportation Co., Ltd., Ottawa.
Germanic, stm., 1014 tons, 184 ft., (1899), North- ern Nav. Co. of Ont., Ltd., Collingwood.	Greene, G. B., paddle strmr., 255 tons, 142 ft., (1896), Upper Ottawa Improvement Co., Ottawa.
Gertie C. 15 tons, 47 ft., (1899), W. W. Carter, Fesserton.	Grenville, sail, 154 tons, 111 ft., (1889), The Ottawa Transportation Co., Ltd., Ottawa.
Gertrude, stm., 76 tons, 75 ft., (1886), The To- ronto Ferry Co., Ltd., Toronto.	Grimsby, sail, 331 tons, 137 ft., (1874), Matthews Line, Toronto.
Gertrude, stm., 3 tons, 27 ft., (1895), P. B. Nolan, Brockville.	Grimmond, Grace, sail 205 tons, 136 ft., (1856), John Galna and R. W. Danter, Parry Sound, Ont.
Gidley, J. G., stm., 57 tons, 70 ft., (1901), Thos. Conlon, Thorold.	Guest, sail, 11 tons, 45 ft., (1891), W. L. Carr, Kingsville.
Gilphie, stm., 19 tons, 75 ft., (1884), Geo. Gillies, Gananoque.	Gull, sail, 25 tons, 52 ft., (1865-1891), Peter Cote, Belleville.
Gipsy Queen, sail, 88 tons, 94 ft., (1870), David Eligh, Marlborough.	Gunnare, stm., 262 tons, 137 ft., (1893), Minister of Marine and Fisheries, Ottawa.
Givard, P., sail, 142 tons, 106 ft., (1881), Ottawa Transportation Co., Ltd., Ottawa.	Gypsey, stm., 11 tons, 39 ft., (1902), Collins In- let Lumber Co., Ltd., Toronto.
Gladstone, sail, 175 tons, 102 ft., (1869), Thos. Currie, Seaforth.	

Glad Tidings, stm., 43 tons, 67 ft., (1884), Methodist Church, Toronto.	H. B., sail, 541 tons, 170 ft., (1891), Ogdensburg Coal & Towing Co., Ogdensburg, N. Y.
Glad Tidings, stm., 10 tons, 42 ft., (1902), Thos. W. Wood, Orillia.	H. C. Curtis, stm., 36 tons, 52 ft., (1878), W. H. Davis, Ottawa.
Gladys, stm., 26 tons, 75 ft., (1894), A. W. Thompson, Ottawa.	Hackett, Alfred A., sail, 11 tons, 43 ft., (1885), H. R. Ely, Wiarton.
Gladys, stm., 9 tons, 45 ft., (1899), Controller, Northwest Mounted Police, Ottawa.	Haggart, John, stm., 184 tons, 99 ft., (1887), J. J. Drummond, Midland.
Glengarry, stm., 732 tons, 170 ft., (1872-1886), Merchants Line, G. E. Jacques & Co., Mgrs., Montreal.	Halcro, stm., 8 tons, 34 ft., (1889), John A. Boyd, Toronto.
Glenora, stm., 17 tons, 45 ft., (1900), H. W. Saxton, Bayham.	Hall, stm., 247 tons, 102 ft., (1889), The Ottawa Forwarding Co., Ltd., Ottawa.
Glenrosa, stm., 63 tons, 66 ft., (1891), Arthur Walton, Magnetawan.	Hall, Jessie, stm., 57 tons, 83 ft., (1867), Montreal Transportation Co., Montreal.
Glide, stm., 80 tons, 72 ft., (1884), Wm. Lawlor, Hawkesbury, Ont.	†Hamilton, paddle stm., 938 tons, 175 ft., (1847-1895), Richelieu & Ont. Nav. Co., Montreal.
Glide, stm., 78 tons, 74 ft., (1866), Montreal Transportation Co., Montreal.	†Hamilton, sail, 799 tons, 202 ft., (1901), Montreal Transportation Co., Montreal.
Glyn, stm., 20 tons, 47 ft., (1900), S. Shipman, Richard's Landing.	Hamilton, paddle stm., 320 tons, 131 ft., (1896), The Upper Ottawa Improvement Co., Ottawa.
Golden City, stm., 35 tons, 57 ft., (1873), Jas. W. McCoppin, Port Colborne.	Hamilton, H., stm., 22 tons, 36 ft., (1894), Geo. Gooderham, Toronto.
Golden Harbor, sail, 43 tons, 68 ft., (1873), A. Ouelette, Belle River.	Hanlon, John, stm., 37 tons, 71 ft., (1884), Lawrence Solman, Toronto.
Goldola, sail 91 tons, 102 ft., (1881), E. Hous-ton, Dresden.	Hannah, Arthur, sail, 22 tons, 47 ft., (1899), Andrew Bow and John Gillian, Toronto.
Gold News, sail, 18 tons, 42 ft., (1894), Albert E. Maude, Toronto.	Hannum, J. M. T., sail, 150 tons, 108 ft., (1876), Ottawa Transportation Co., Ltd., Ottawa.
Gold M., stm., 3 tons, 30 ft., (1895), Henry W. Mackey, Keewatin.	Harold, stm., 1 ton, 17 ft., (1887), Samuel Sunstrum, Jr., Golden Lake.
Gold N., Mary S., sail, 28 tons, 56 ft., (1882), John D. Carston, Owen Sound.	Harper, Jennie, G., stm., 20 tons, 48 ft., (1874), James Pilgrim, Meaford.
Gold N., James, sail, 147 tons, 108 ft., (1881), Goldatawa Transportation Co., Ltd., Ottawa.	Harris, Geo. A., stm., 87 tons, 90 ft., (1882), Ottawa Transportation Co., Ltd., Ottawa.

Harry, sail, 166 tons, 11 ft., (1879), The Ottawa Transportation Co., Ltd., Ottawa.	Hiawatha, stmr., 46 tons, 56 ft., (1895), Royal Canadian Yacht Club, Toronto.
Harvey, sail 65 tons, 70 ft., (1897), Robt. Kennedy, Lindsay.	Hickler, Pauline, stmr., 50 tons, 55 ft., (1892), Albert E. Bowman, Southampton.
Hastings, sail, 36 tons, 61 ft., (1898), Frank Burnett, Birdsal.	Hiesordt, P. S., stmr., 45 tons, 66 ft., (1887), John Andrews, Spanish River.
Hatch, Mary, stmr., 121 tons, 107 ft., (1881), Ontario & Western Lumber Co., Ltd., Rat Portage.	Highland Beauty, sail, 58 tons, 80 ft., (1876), W. E. Lobb, Picton.
Hattie Ann, sail, 51 tons, 84 ft., (1883), James Mullens, Belleville.	High View Launch, stmr., 2 tons, 25 ft., (1893), Mrs. Maria McAllister, Pembroke.
Hattie H., sail, 134 tons, 108 ft., (1888), The Ottawa Transportation Co., Ltd., Ottawa.	Hill, Annie C., stmr., 14 tons, 36 ft., (1890), John Forsyth, Barrie.
Hawwa, stmr., 4 tons, 35 ft., (1896), J. C. Brennan, Ottawa.	Hiram, sail, 134 tons, 104 ft., (1876), R. M. Easton, Merrickville.
Hazard, stmr., 34 tons, 62 ft., (1892), E. Harris, Port Dover.	†Hoachelaga, paddle stmr., 419 tons, 178 ft., (1886), Richelieu & Ont. Nav. Co., Montreal.
Hazlitt, paddle stmr 24 tons, 41 ft., (1902), The Dickson Co., Peterborough.	Hodgkins, Evelynne, stmr., 4 tons, 29 ft., (1888), Freeman Hodgkins, Toronto.
Heather Belle, stmr., 20 tons, 50 ft., (1882), Emerson Danagh, Owen Sound.	Holland, Grace, stmr., 3 tons, 27 ft., (1901), Wm. E. Bigwood, Toronto.
Heather Belle, stmr., 21 tons, 39 ft., (1896), H. J. Davis, Rat Portage.	Home Rule, stmr., 81 tons, 74 ft., (1890), James B. Hackett, Amherstburg.
Heather Belle, sail, 121 tons, 93 ft., (1868), R. Gawley, Eastnor.	Home Rule, stmr., 3 tons, 28 ft., (1887), Wilfred France, Penetanguishene, P. O.
Heather Belle, stmr., 9 tons, 35 ft., (1902), Sidney F. McKinnon, Toronto.	Homer, sail, 25 tons, 47 ft., (1893), Robt. Kennedy, Lindsay.
Hebron, stmr., 149 tons, 98 ft., (1899), Jas. H. Hall, et al., Ottawa.	Hope, sail, 25 tons, 54 ft., (1866), Edward Adamson, Toronto.
Hector, stmr., 43 tons, 64 ft., (1873), M. J. Hogan, Port Colborne.	Hope, stmr., 170 tons, 95 ft., (1870), Bridgeburg & Black Rock Ferry Co., Ltd., Fort Erie.
Heleen, stmr., 5 tons, 34 ft., (1877), B. Mackie, Little Current.	Hosanna, stmr., 89 tons, 58 ft., (1893), Richelieu & Ont. Nav. Co., Montreal.
Helena, sail 41 tons, 70 ft., (1888), T. H. Colburn, Hamilton.	†Hosanna, paddle stmr 16 tons, 42 ft., (1870)

Helen S., stm., 86 tons, 80 ft., (1899), The Col-
lin's Inlet Lumber Co., Toronto.
Helena, stm., 13 tons, 44 ft., (1877), Jos. C.
Huckins, Toronto.
Henny, John, sail, 155 tons, 111 ft., (1889), Ot-
tawa Transportation Co., Ltd., Ottawa.
Henrietta, stm., 3 tons, 28 ft., (1894), J. Ed-
wards, Hamilton.
Henry, W. J., stm., 1 ton, 22 ft., (1890), R. L.
Haycock, Ottawa.
Henry, W. J., sail, 185 tons, 111 ft., (1895), R. L.
Haycock, Ottawa.
Herbert, stm., 15 tons, 50 ft., (1901), John H.
Wilmut, Beaumaris.
Herbert, stm., 21 tons, 42 ft., (1897), James Con-
nor, Port Arthur.
Herbert, sail, 162 tons, 110 ft., (1880), The Ot-
tawa Transportation Co., Ltd., Ottawa.
Herbert M., stm., 26 tons, 43 ft., (1887), Chas.
Mickle, Gravenhurst.
Hercules, paddle stmr., 21 tons, 46 ft., (1901),
Upper Ottawa Improvement Co., Ottawa.
Hercules, sail, 91 tons, 65 ft., (1880), Thos. Reid,
Walkerville.
Hero, stm., 37 tons, 65 ft., (1861), Thos. Barrie,
Sombra, Ont.
Hewes, J. D., stm., 51 tons, 55 ft., (1892), David
Hewis, Midland.
Hewatha, paddle stmr., 22 tons, 46 ft., (1901),
R. Kennedy, Lindsay.
Hewatha, sail, 518 tons, 176 ft., (1890), Kings-
ton & Montreal Forwarding Co., Ltd., Kings-
ton.
Hewatha, stm., 163 tons, 92 ft., (1874), Port
Huron & Sarnia Ferry Co., Sarnia.

Houghton, stm., 49 tons, 60 ft., (1863), N. Dy-
mont, Barrie.
Howard, sail, 168 tons, 110 ft., (1880), The Ot-
tawa Transportation Co., Ltd., Ottawa.
Hugh S., stm., 59 tons, 50 ft., (1897), Mrs. Han-
nah N. Stalker, Collingwood.
Hume, Jessie, stm., 58 tons, 62 ft., (1894), Minis-
ter of Public Works, Ottawa.
Hunter, John, stm., 32 tons, 54 ft., (1885), James
Murray, St. Catharines.
Hurdman, R., stm., 93 tons, 103 ft., (1892), A.
Lumsden, Ottawa.
Huron, stm., 70 tons, 71 ft., (1882), The Ontario
Lumber Co., Toronto.
Huron, stm., 55 tons, 71 ft., (1898), W. Marlton,
Goderich.
Huron, sail, 475 tons, 160 ft., (1881), Kingston
& Montreal Forwarding Co., Ltd., Kingston.
Huron Belle, stm., 27 tons, 50 ft., (1889), Geo.
A. Fraser, Sincoe.
Huronic, stm., 3330 tons, 325 ft., (1902), North-
ern Nav. Co., of Ont., Ltd., Collingwood, Ont.
Hydra, stm., 6 tons, 40 ft., (1892), Seth Benson,
Deseronto.
Hygeia, stm., 2 tons, 30 ft., (1886), Samuel May,
Toronto.
Iagara, stm., 7 tons, 40 ft., (1901), Davis Dry
Dock Co., Ltd., Kingston.
Ice, sail, 41 tons, 47 ft., (1901), Chas. Perrault,
Sandwich.
Ida, stm., 17 tons, 56 ft., (1880), J. C. Edwards,
Ottawa.
Ida, sail, 58 tons, 69 ft., (1885), W. C. Edwards,
et al., Rockland.

CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

<i>Gen</i> , stm., 9 tons, 35 ft., (1897), A. S. Smith, Stephenson Tp., Muskoka.	Grace, paddle stm., 11 tons, 42 ft., (1894), M. A. Jessemer, Cornwall.
<i>Gen</i> Weitzel, stm., 32 tons, 57 ft., (1881), W. H. Plummer, Sault Ste. Marie.	Granger, sail, 21 tons, 50 ft., (1899), John Flynn, Picton.
<i>Gen</i> , Wolseley, paddle stm., 123 tons, 103 ft., (1884), John Nisbet, Owen Sound.	Grant, sail, 146 tons, 112 ft., (1887), The Ottawa Transportation Co., Ltd., Ottawa.
<i>George</i> , sail, 152 tons, 109 ft., (1881), The Ottawa Transportation Co., Ltd., Ottawa.	Grant, Kate, sail, 47 tons, 60 ft., (1880), Denis Parent, Sandwich.
<i>Georgia</i> , stm., 28 tons, 43 ft., (1885), John Sulli- van, Little Current.	Grantham, sail, 325 tons, 140 ft., (1873), Ira A. Breck, Garden Island.
<i>Georgina</i> , stm., 44 tons, 74 ft., (1898), J. Maloney, Pt. Arthur.	Gravenhurst, stm., 29 tons, 52 ft., (1902), Peter Campbell, Muskoka.
<i>Geraldine</i> , stm., 65 tons, 66 ft., (1893), J. Galna, Port Dover.	Gray, Dolly, stm., 5 tons, 35 ft., (1900), Wm. Howard, Bayville.
<i>German</i> , W. M., stm., 28 tons, 58 ft., (1888), James Law, Port Dover.	Gray, John, sail, 156 tons, 110 ft., (1881), Ottawa Transportation Co., Ltd., Ottawa.
<i>Germanic</i> , stm., 1014 tons, 184 ft., (1899), North- ern Nav. Co. of Ont., Ltd., Collingwood.	Greene, G. B., paddle stm., 255 tons, 142 ft., (1896), Upper Ottawa Improvement Co., Ottawa.
<i>Gertie</i> C., 15 tons, 47 ft., (1899), W. W. Carter, Fesserton.	Grenville, sail, 154 tons, 111 ft., (1889), The Ottawa Transportation Co., Ltd., Ottawa.
<i>Gertrude</i> , stm., 76 tons, 75 ft., (1886), The To- ronto Ferry Co., Ltd., Toronto.	Grimsby, sail, 331 tons, 137 ft., (1874), Matthews Line, Toronto.
<i>Gertrude</i> , stm., 3 tons, 27 ft., (1895), P. B. Nolan, Brockville.	Grimmond, Grace, sail, 205 tons, 136 ft., (1856), John Galna and R. W. Danter, Parry Sound, Ont.
<i>Gidley</i> , J. G., stm., 57 tons, 70 ft., (1901), Thos. Conlon, Thorold.	Guest, sail, 11 tons, 45 ft., (1891), W. L. Carr, Kingsville.
<i>Gilphie</i> , stm., 19 tons, 75 ft., (1884), Geo. Gillies, Gananoque.	Gull, sail, 25 tons, 52 ft., (1865-1891), Peter Cote, Belleville.
<i>Gipsy Queen</i> , sail, 88 tons, 94 ft., (1870), David Eligh, Marlborough.	Gutnare, stm., 262 tons, 137 ft., (1893), Minister of Marine and Fisheries, Ottawa.
<i>Girard</i> , P., sail, 142 tons, 106 ft., (1881), Ottawa Transportation Co., Ltd., Ottawa.	Gypsey, stm., 11 tons, 39 ft., (1902), Collins In- let Lumber Co., Ltd., Toronto.
<i>Gladstone</i> , sail, 175 tons, 102 ft., (1869), Thos. Currie, Seaforth.	Gypsie, stm., 3 tons, 25 ft., (1899), Dickson Best, Petersborough.
<i>Gladstone</i> , W. E., stm., 45 tons, 72 ft., (1882), Walter M. Newman, Warton.	

odist Church, Toronto.
 Glad Tidings, stm., 10 tons, 42 ft., (1902), Thos. W. Wood, Orillia.
 Gladys, stm., 26 tons, 75 ft., (1894), A. W. Thompson, Ottawa.
 Gladys, stm., 9 tons, 45 ft., (1899), Controller, Northwest Mounted Police, Ottawa.
 Glengarry, stm., 732 tons, 170 ft., (1872-1886), Merchants Line, G. E. Jacques & Co., Mgrs., Montreal.
 Glenora, stm., 17 tons, 45 ft., (1900), H. W. Saxton, Bayham.
 Glenrosa, stm., 63 tons, 66 ft., (1891), Arthur Walton, Magnetawan.
 Glide, stm., 80 tons, 72 ft., (1884), Wm. Lawlor, Hawkesbury, Ont.
 Glide, stm., 78 tons, 74 ft., (1866), Montreal Transportation Co., Montreal.
 Glynn, stm., 20 tons, 47 ft., (1900), S. Shipman, Richard's Landing.
 Golden City, stm., 35 tons, 57 ft., (1873), Jas. W. McCoppin, Port Colborne.
 Golden Harbor, sail, 42 tons, 68 ft., (1873), A. Goulette, Belle River.
 Gondola, sail, 91 tons, 102 ft., (1881), E. Hous-ton, Dresden.
 Good News, sail, 18 tons, 42 ft., (1894), Albert Maude, Toronto.
 Good E., M., stm., 3 tons, 30 ft., (1895), Henry W. Mackey, Keewatin.
 Gordon, Mary S., sail, 28 tons, 56 ft., (1882), John D. Carston, Owen Sound.
 Gordon, James, sail, 147 tons, 108 ft., (1881), Gordonawa Transportation Co., Ltd., Ottawa.

Coal & Towing Co., Ogdensburg, N. Y.
 H. C. Curtis, stm., 36 tons, 52 ft., (1878), W. H. Davis, Ottawa.
 Hackett, Alfred A., sail, 11 tons, 43 ft., (1885), H. R. Ely, Warton.
 Haggart, John, stm., 184 tons, 99 ft., (1887), J. J. Drummond, Midland.
 Halcro, stm., 8 tons, 34 ft., (1889), John A. Boyd, Toronto.
 Hall, stm., 247 tons, 102 ft., (1889), The Ottawa Forwarding Co., Ltd., Ottawa.
 Hall, Jessie, stm., 57 tons, 83 ft., (1867), Montreal Transportation Co., Montreal.
 †Hamilton, paddle stm., 938 tons, 175 ft., (1847-1895), Richelieu & Ont. Nav. Co., Montreal.
 †Hamilton, sail, 799 tons, 202 ft., (1901), Montreal Transportation Co., Montreal.
 Hamilton, paddle stm., 320 tons, 131 ft., (1896), The Upper Ottawa Improvement Co., Ottawa.
 Hamilton, H., stm., 22 tons, 36 ft., (1894), Geo. Gooderham, Toronto.
 Hanlon, John, stm., 37 tons, 71 ft., (1884), Lawrence Solman, Toronto.
 Hannah, Arthur, sail, 22 tons, 47 ft., (1899), Andrew Bow and John Gillian, Toronto.
 Hannum, J. M. T., sail, 150 tons, 108 ft., (1876), Ottawa Transportation Co., Ltd., Ottawa.
 Harold, stm., 1 ton, 17 ft., (1887), Samuel Sunstrum, Jr., Golden Lake.
 Harper, Jennie G., stm., 20 tons, 48 ft., (1874), James Pilgrim, Meaford.
 Harris, Geo. A., stm., 87 tons, 90 ft., (1882), Ottawa Transportation Co., Ltd., Ottawa.

Harry, sail, 166 tons, 111 ft., (1879), The Ottawa Transportation Co., Ltd., Ottawa.	Hiawatha, stm., 46 tons, 56 ft. (1895), Royal Canadian Yacht Club, Toronto.
Harvey, sail 65 tons, 70 ft., (1897), Robt. Kennedy, Lindsay.	Hickler Pauline, stm., 50 tons, 55 ft., (1892), Albert E. Bowman, Southampton.
Hastings, sail, 36 tons, 61 ft., (1898), Frank Burnett, Birdsal.	Hiesordt, P. S., stm., 45 tons, 66 ft., (1887), John Andrews, Spanish River.
Hatch, Mary, stm., 121 tons, 107 ft., (1881), Ontario & Western Lumber Co., Ltd., Rat Portage.	Highland Beauty, sail, 58 tons, 80 ft., (1876), W. E. Lobb, Picton.
Hattie Ann, sail, 51 tons, 84 ft., (1883), James Mullens, Belleville.	High View Launch, stm., 2 tons, 25 ft., (1898), Mrs. Maria McAllister, Pembroke.
Hattie H., sail, 134 tons, 108 ft., (1888), The Ottawa Transportation Co., Ltd., Ottawa.	Hill, Annie C., stm., 14 tons, 36 ft., (1890), John Forsyth, Barrie.
Hawywa, stm., 4 tons, 35 ft., (1896), J. C. Brennan, Ottawa.	Hiram, sail, 134 tons, 104 ft., (1876), R. M. Easton, Merrickville.
Hazard, stm., 34 tons, 62 ft., (1892), E. Harris, Port Dover.	†Hochelega, paddle stm., 419 tons, 178 ft., (1886), Richelieu & Ont. Nav. Co., Montreal.
†Hazlitt, paddle stm., 24 tons, 41 ft., (1902), The Dickson Co., Peterborough.	Hodgkins, Evelyn, stm., 4 tons, 29 ft., (1888), Freeman Hodgkins, Toronto.
Heather Belle, stm., 20 tons, 50 ft., (1882), Emerson Danagh, Owen Sound.	Holland, Grace, stm., 3 tons, 27 ft., (1901), Wm. E. Bigwood, Toronto.
Heather Belle, stm., 21 tons, 39 ft., (1896), H. J. Davis, Rat Portage.	Home Rule stm., 81 tons, 74 ft., (1890), James B. Hackett, Amherstburg.
Heather Belle, sail, 121 tons, 93 ft., (1868), R. Gawley, Eastnor.	Home Rule, stm., 3 tons, 28 ft., (1887), Wilfred France, Penetanguishene, P. O.
Heather Belle, stm., 9 tons, 35 ft., (1902), Sidney F. McKinnon, Toronto.	Homer, sail, 25 tons, 47 ft., (1898), Robt. Kennedy, Lindsay.
Hebron, stm., 149 tons, 98 ft., (1899), Jas. H. Hall, et al., Ottawa.	Hope, sail 25 tons, 54 ft., (1866), Edward Adamson, Toronto.
Hector, stm., 43 tons, 64 ft., (1873), M. J. Hogan, Port Colborne.	Hope, stm., 170 tons, 95 ft., (1870), Bridgeburg & Black Rock Ferry Co., Ltd., Fort Erie.
Helen, stm. 5 tons, 34 ft., (1877), B. Mackie, Little Current.	Hosanna, stm 89 tons, 58 ft., (1893), Richelieu & Ont. Nav Co., Montreal.
Helen, sail, 61 tons, 79 ft., (1882), J. H. Goldring, Toronto.	Hotchkiss, Fred, stm., 18 tons, 48 ft., (1870), Muskoka Mill & Lumber Co., Toronto.

- Helen S., stm., 86 tons, 80 ft., (1899), The Col-
lin's Inlet Lumber Co., Toronto.
- Helena, stm., 13 tons, 44 ft., (1877), Jos. C. C.
Huckins, Toronto.
- Henev, John, sail, 155 tons, 111 ft., (1889), Ot-
tawa Transportation Co., Ltd., Ottawa.
- Henrietta, stm., 3 tons, 28 ft., (1894), J. Ed-
wards, Hamilton.
- Henry, W. J., stm., 1 ton, 22 ft., (1890), R. L.
Haycock, Ottawa.
- Henry, W. J., sail, 185 tons, 111 ft., (1895), R. L.
Haycock, Ottawa.
- Hepburn, stm., 15 tons, 50 ft., (1901), John H.
Wilnot, Beaumaris.
- Herbert, stm., 21 tons, 42 ft., (1897), James Con-
nor, Port Arthur.
- Herbert, sail, 162 tons, 110 ft., (1880), The Ot-
tawa Transportation Co., Ltd., Ottawa.
- Herbert M., stm., 26 tons, 43 ft., (1887), Chas.
Mickle, Gravenhurst.
- Hercules, paddle stmr., 21 tons, 46 ft., (1901),
Upper Ottawa Improvement Co., Ottawa.
- Hercules, sail, 91 tons, 65 ft., (1880), Thos. Reid,
Walkerville.
- Hercules, stm., 37 tons, 65 ft., (1861), Thos. Barrie,
Sombra, Ont.
- Hewes, J. D., stm., 51 tons, 55 ft., (1892), David
Hewis, Midland.
- Hewatha, paddle stmr., 22 tons, 46 ft., (1901),
R. Kennedy, Lindsay.
- Hewatha, sail, 518 tons, 176 ft., (1890), Kings-
ton & Montreal Forwarding Co., Ltd., Kings-
ton.
- Hewatha, stm., 163 tons, 92 ft., (1874), Port
Huron & Sarnia Ferry Co., Sarnia.
- Houghton, stm., 49 tons, 60 ft., (1863), N. Dy-
ment, Barrie.
- Howard, sail, 168 tons, 110 ft., (1880), The Ot-
tawa Transportation Co., Ltd., Ottawa.
- Hugh S., stm., 59 tons, 50 ft., (1897), Mrs. Han-
nah N. Stalker, Collingwood.
- Hume, Jessie, stm., 58 tons, 62 ft., (1894), Minis-
ter of Public Works, Ottawa.
- Hunter, John, stm., 32 tons, 54 ft., (1885), James
Murray, St. Catharines.
- Hurdman, R., stm., 98 tons, 103 ft., (1892), A.
Lumsden, Ottawa.
- Huron, stm., 70 tons, 71 ft., (1882), The Ontario
Lumber Co., Toronto.
- Huron, stm., 55 tons, 71 ft., (1898), W. Marlton,
Goderich.
- Huron, sail, 475 tons, 160 ft., (1881), Kingston
& Montreal Forwarding Co., Ltd., Kingston.
- Huron Belle, stm., 27 tons, 50 ft., (1889), Geo.
A. Fraser, Sincoc.
- Huronic, stm., 3330 tons, 325 ft., (1902), North-
ern Nav. Co., of Ont., Ltd., Collingwood, Ont.
- Hydra, stm., 6 tons, 40 ft., (1892), Seth Benson,
Deseronto.
- Hygeia, stm., 2 tons, 30 ft., (1886), Samuel May,
Toronto.
- Iagara, stm., 7 tons, 40 ft., (1901), Davis Dry
Dock Co., Ltd., Kingston.
- Ice, sail, 41 tons, 47 ft., (1901), Chas. Perrault,
Sandwich.
- Ida, stm., 17 tons, 56 ft., (1880), J. C. Edwards,
Ottawa.
- Ida, sail, 58 tons, 69 ft., (1885), W. C. Edwards,
et al., Rockland.

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CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Ida, stm., 19 tons, 44 ft., (1887), Murdock, McInnes and A. B. Sutherland, Port Caldwell.	Island Queen, sail, 28 tons, 52 ft., (1897), Mrs. A. Lloyd, Toronto.
Ida, stm., 21 tons, 46 ft., (1881), Arthur Starkey, Parry Sound.	Island Queen, stm., 23 tons, 73 ft., (1889), The Toronto Ferry Co., Ltd., Toronto.
Ida M., 14 tons, 60 ft., (1890), John McCormick, Pelee Island.	Islander, stm., 165 tons, 100 ft., (1900), The Muskoka & Georgian Bay Nav. Co., Ltd., Gravenhurst.
Idle Hour, 2 tons, — ft., (1894), R. S. Moffatt, Peterborough.	Islay, stm., 175 tons, 116 ft., (1895), Chas. McInness, Orillia.
Idle Wild, sail, 19 tons, 49 ft., (1882), A. Rochester, Kingston.	Ivan, Edna, stm., 54 tons, 79 ft., (1900), James Purvis, Gore Bay.
Illcilliwaet, 16 tons, 50 ft., (1897), J. M. Walsh, Brockville.	Ivy, stm., 7 tons, 44 ft., (1884), D. B. Macleennan, Cornwall.
Imperial, stm., 36 tons, 54 ft., (1876), James Ganley, Sault Ste. Marie.	Jackson, sail, 157 tons, 110 ft., (1881), The Ottawa Transp. Co., Ltd., Ottawa.
Imperial, stm., 150 tons, 109 ft., (1886), Kingsville & Pelee Nav. Co., Kingsville.	James, sail, 153 tons, 108 ft., (1882), The Ottawa Transp. Co., Ltd., Ottawa.
Ina, stm., 14 tons, 56 ft., (1901), Wm. J. Gage, Toronto.	Jameson, Wm., sail, 143 tons, 100 ft., (1878), D. Galbraith, Whitby.
India, stm., 976 tons, 215 ft., (1899), The Calvin Co., Ltd., Garden Island.	Jay, sail, 32 tons, 59 ft., (1894), Chas. E. Laverdiere, Rat Portage.
Inez, stm., 59 tons, 65 ft., (1884), Jas. Murphy, Port William.	J. B. P. No. 1, sail, 65 tons, 70 ft., (1891), Jos. Briggs Parkin, Lindsay.
Inez, stm., 2 tons, 24 ft., (1889), Geo. T. Tuckett, Hamilton.	J. B. P. No. 2, sail, 29 tons, 38 ft., Jos. Briggs Parkin, Lindsay.
†International, stm., 851 tons, 210 ft., (1872), L. E. & Det. River Ry. Co., Walkerville, Ont.	Jennie, A. H., stm., 197 tons, 119 ft., (1882), Agnes M. Britnell, Toronto, Ont.
International, stm., 395 tons, 182 ft., (1881), Can. Pac. Car & Pass. Transfer Co., Ltd., Prescott.	Jerry, Gordon, stm., 124 tons, 102 ft., (1884), S. W. Marchmont, Toronto.
Inter-Ocean, stm., 144 tons, 103 ft., (1881), The Muskoka & Nipissing Nav. Co., Gravenhurst.	Jessie, stm., 9 tons, 31 ft., (1900), Stanley Burton, Peterborough.
Inter-Ocean, 148 tons, 74 ft., (1888), E. G. Shortis, Wallaceburg.	Jessie, sail, 29 tons, 63 ft., (1869), R. Kimberley, 1884. stm., 9 tons, 38 ft., (1900), Samuel Forrest,

Iota, stm., 6 tons, 34 ft., (1894), G. Hamilton,
 Spanish River.
 Ireland, sail, 339 tons, 147 ft., (1863), Ogdens-
 burg, Coal & Towing Co., Ogdensburg,
 N. Y.
 Ireland, W. S., stm., 105 tons, 86 ft., (1872),
 John Cooper, Chatham.
 Irene, stm., 3 tons, 25 ft., (1892), Harry Leslie,
 Port Colborne.
 Irene, stm., 3 tons, 31 ft., (1881), Chas. Wynn,
 Peterboro.
 Irene, stm., 24 tons, 26 ft., (1887), Thos. Christie,
 Hamilton.
 Irene, stm., 7 tons, 42 ft., (1887), Geo. F. Oak-
 ley and T. H. Allen, Toronto.
 Irene, stm., 10 tons, 40 ft., (1900), J. D. John-
 ston, Rat Portage.
 †Iroquois, stm., 2359 tons, 260 ft., (1902), St. Law-
 rence & Chicago S. N. Co., Ltd., Toronto,
 Can.
 Iroquois, sail, 361 tons, 151 ft., (1875), Kingston
 & Montreal Forwarding Co., Kingston.
 Isabel, stm., 1 ton, 20 ft., (1890), E. Farmer and
 J. B. Tieny, Arnprior.
 Isabella, sail, 33 tons, 57 ft., (1875), A. Ouellette,
 Belle River.
 Isabella, stm., 3 tons, 30 ft., (1893), G. S. Ryer-
 son, Toronto.
 Isabella, sail, 96 tons, 105 ft., (1884), P. Larkin, St.
 Catharines, Ont., and A. Sangster, Iroquois.
 Isabella, Belle, stm., 31 tons, 64 ft., (1882), J. Gar-
 rock, Sarnia.
 Isabella, Queen, stm., 98 tons, 91 ft., (1887), L. J.
 Cosgrove and P. J. Craig, Toronto.

MONTREAL FORWARDING CO., LTD., KINGSTON.
 J. M. No. 1, sail, 73 tons, 75 ft., (1890), Jos.
 Maunder, Lindsay.
 J. M. No. 2, sail, 80 tons, 75 ft., (1890), Jos.
 Maunder, Lindsay.
 J. M. K. No. 1, sail, 64 tons, 86 ft., (1897),
 W. J. C. Boyd, Bobcaygeon.
 J. M. K. No. 3, sail, 72 tons, 81 ft., (1897),
 W. J. C. Boyd, Bobcaygeon.
 J. M. K. No. 4, sail, 66 tons, 72 ft., (1897),
 W. J. C. Boyd, Bobcaygeon.
 J. M. K. No. 5, sail, 59 tons, 74 ft., (1897),
 W. J. C. Boyd, Bobcaygeon.
 J. M. K. No. 6, sail, 53 tons, 64 ft., (1897),
 W. J. C. Boyd, Bobcaygeon.
 J. M. K. No. 7, sail, 47 tons, 62 ft., (1897),
 W. J. C. Boyd, Bobcaygeon.
 J. M. K. No. 8, sail, 46 tons, 62 ft., (1892),
 W. J. C. Boyd, Bobcaygeon.
 Joe, stm., 59 tons, 65 ft., (1900), Geo. F. Marsh,
 Huntsville.
 Johanna, sail, 40 tons, 60 ft., (1867), M. Thi-
 bert, Jr., Belle River.
 Johnston, Wm., stm., 95 tons, 85 ft., (1878), The
 Calvin Co., Ltd., Garden Island.
 Jones, Birdie, stm., 2 tons, 28 ft., (1885), A. W.
 Jones, Ottawa.
 Jones, C. W., stm., 48 tons, 56 ft., (1885), R. D.
 Weddell, Trenton.
 Jones, J. H., stm., 152 tons, 107 ft., (1888),
 Crawford Tug Co., Wiarton.
 Jopl., stm., 11 tons, 52 ft., (1895), John Paul,
 Newboro.

Josie, stm., 12 tons, 32 ft., (1897), Toronto & Western Mines Development Co., Ltd., Toronto.	Kismet, stm., 5 tons, 36 ft., (1894), E. B. Burrell, Belleville.
J. R. A. No. 1, sail, 43 tons, 60 ft., (1884), W. Marleton, Goderich.	Klondike, stm., 2 tons, 25 ft., (1898), E. W. Jenkins, Magnetawan.
J. R. A. No. 2, sail, 43 tons, 60 ft., (1884), W. Marleton, Goderich.	Kneeland, Sylvester, stm., 46 tons, 65 ft., (1867), Frank Jackman, Toronto.
Juanita, stm., 5 tons, 30 ft., (1880), James Morceau, Port Severn.	Knight, Joe, stm., 14 tons, 35 ft., (1867), James Murray, St. Catharines.
Jubilee, stm., 10 tons, 53 ft., (1888), J. H. Ferguson, et al., Blenheim.	Kollage, John G., sail, 93 tons, 79 ft., (1869-1883), Peter McEwen, Goderich.
Jubilee, stm., 2 tons, 35 ft., (1897), Geo. Gale, et al., Ottawa.	L'Ami, stm., 2 tons, 36 ft., (1898), E. Chateauvert, et al., Ottawa.
Jubilee, stm., 54 tons, 65 ft., (1897), Mrs. Alletha Roys, Kingston.	La Belle, stm., 75 tons, 72 ft., (1897), H. A. Hackett, Amherstburg.
Jubilee, stm., 3 tons, 30 ft., (1887), Jos. S. Wallace, Port Carling.	La Canadienne, stm., 372 tons, 154 ft., (1880), The Minister of Marine and Fisheries, Ottawa.
Julio, sail, 7 tons, 40 ft., (1894), W. H. Hurdman, Ottawa.	Lackawanna, sail, 154 tons, 106 ft., (1884), Ottawa Transportation Co., Ltd., Ottawa.
Jumbo, sail, 159 tons, 106 ft., (1883), The Ottawa Transp. Co., Ltd., Ottawa.	Ladas, stm., 54 tons, 73 ft., (1894), Victoria Harbor Lumber Co., Ltd., Toronto.
Jumbo, sail, 150 tons, 136 ft., (1880), Can. Pac. Car & Pass. Transfer Co., Ltd., Prescott.	Lady Eberth, stm., 3 tons, 36 ft., (1880), John Eberth, Hanover.
Juno, stm., 288 tons, 139 ft., (1885), W. J. Pulling, Windsor, Ont.	Lady Franklin, stm., 5 tons, 36 ft., (1901), The Stanton, Sparrow Lake.
Juno, stm., 17 tons, 49 ft., (1890), Wm. H. Berry, March.	Lady Ida, paddle stm., 28 tons, 54 ft., (1878), John Eldridge, Omemece.
Kate, stm., 15 tons, 63 ft., (1902), H. M. Mowat, Toronto.	Lady of the Lake, stm., 7 tons, 47 ft., (1902), Chas. J. Gibson, Toronto.
Kathadin, sail, 381 tons, 150 ft., (1888), Spanish River Lumber Co., Spanish River.	Lady of the Lake, stm., 47 tons, 70 ft., (1902), Frank Henman, Thornbury.
Kathleen, stm., 110 tons, 84 ft., (1886), The Toronto Ferry Co., Ltd., Toronto.	Lady of the Lake, 33 tons, 60 ft., (1897), W. B. Kelly, Bridgenorth.
Katie, stm., 4 tons, 30 ft., (1896), C. P. Chisholm, Oakville.	Lady of the Lake, stm., 10 tons, 49 ft., A. T. Lowe, Bala.

Kawartha, stm., 17 tons, 46 ft., (1900), William
 Burgoyne, Fenelon Falls.
 Kenora, stm., 486 tons, 119 ft., (1897), The
 Rainy River Nav. Co., Ltd., Rat Portage.
 Keepsake, sail, 45 tons, 72 ft., (1880), Horace
 Fleury, Belle River.
 Keewatin, stm., 41 tons, 51 ft., (1889), Keewatin
 Lumbering & Mfg. Co., Ltd., Hamilton.
 Keewatin, sail, 199 tons, 120 ft., (1888), A.
 Campbell, Lakeport.
 Kenirving, stm., 145 tons, 104 ft., (1900), Ed-
 ward Smith, Storrington.
 Kenneth, stm., 4 tons, 38 ft., (1889), Geo. Mor-
 row, Cornwall.
 Kennina, stm., 42 tons, 57 ft., (1890), L. R.
 Mackey, Keewatin.
 Kenosha, paddle stm., 266 tons, 112 ft., (1891),
 Jos. B. Parkin, Lindsay.
 Kerozha, stm., 225 tons, 100 ft., (1883), The
 Muskoka & Nipissing Nav. Co., Graven-
 hurst.
 Kestrel, stm., 7 tons, 38 ft., (1900), James Play-
 fair, Midland.
 Kilbirnie, stm., 15 tons, 45 ft., (1887), R. J.
 Brodie, Smith's Falls.
 Kilgare, stm., 5 tons, 32 ft., (1901), Wm. La-
 frelle, Hamilton.
 King, Ben. stm., 145 tons, 108 ft., (1895), G. A.
 Richardson, Kingston.
 King Edward, stm., 571 tons, 175 ft., (1891),
 King's Aigoma Central S. S. Line, Sault Ste. Marie.
 King's Euretta, sail, 130 tons, 110 ft., (1887),
 King's J. Holloway, Toronto.
 King's Fisher, sail, 107 tons, 100 ft., (1892), Min-
 ister of Marine and Fisheries, Ottawa.
 Kingston, paddle stm., 2925 tons, 288 ft., (1901),
 Kingston & Ont. Nav. Co., Montreal, Que.
 King's Richelieu, sail, 516 tons, 175 ft., (1892), King-
 ston & Montreal Forwarding Co., Ltd.,
 Kingston.

Lady Smith, stm., 6 tons, 40 ft., (1893), Chas.
 C. Pilkey, Orillia.
 Lady Smith, sail, 76 tons, 86 ft., (1899), Wm. H.
 White, Lakefield.
 Lake, Annie, stm., 19 tons, 64 ft., (1894), J. C.
 Lake, Belleville.
 Lake Joseph, stm., 28 tons, 52 ft., (1890), The
 Muskoka & Nipissing Nav. Co., Graven-
 hurst.
 Lake Michigan, stm., 588 tons, 136 ft., (1872),
 R. O. & A. B. McKay, Hamilton.
 Lakeside, stm., 348 tons, 121 ft., (1888), Lake-
 side Nav. Co., Ltd., Walkerville.
 Lake St. Louis, No. 1, sail, 63 tons, 58 ft.,
 (—), Minister of Marine & Fisheries, Ot-
 tawa.
 Lake St. Louis, No. 2, 64 tons, 58 ft., (—),
 Minister of Marine & Fisheries, Ottawa.
 Lake St. Louis, No. 3, 66 tons, 58 ft., (—),
 Minister of Marine & Fisheries, Ottawa.
 Lake St. Peter, No. 1, sail, 46 tons, 56 ft., (—),
 Minister of Marine & Fisheries, Ottawa.
 Lake St. Peter, No. 2, sail, 46 tons, 56 ft., (—),
 Minister of Marine & Fisheries, Ottawa.
 Lake St. Peter, No. 3, sail, 46 tons, 56 ft., (—),
 Minister of Marine & Fisheries, Ottawa.
 Lamb, Daniel, sail, 18 tons, 90 ft., (1896), Cor-
 poration of the City of Toronto, Toronto.
 †Lansdowne, pass. stm., 1571 tons, (1884), G. T.
 R. Co., Windsor.
 Lansdowne, stm., 680 tons, 188 ft., (1884), The
 Minister of Marine & Fisheries, Ottawa.
 Laprairie, paddle stm., 600 tons, 197 ft., (1899-
 1894), Richelieu & Ont. Nav. Co., Montreal.
 Lapwing, sail, 516 tons, 175 ft., (1892), King-
 ston & Montreal Forwarding Co., Ltd.,
 Kingston.

CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Lake sail, 363 tons, 136 ft., (1871), Kingston & Montreal Forwarding Co., Ltd., Kingston.	Lillie of the Valley, 2 tons, 33 ft., (1891), P. Sage, Mackey's Station.
Larkin, Hubert, stm., 49 tons, 61 ft., (1882), W. J. Poupore, Morrisburg.	Lilly, stm., 22 tons, 50 ft., (1890), The Victoria Harbor Lumber Co., Ltd., Toronto.
Larned, L. C., sail, 43 tons, 72 ft., (1875), D. W. Crome, Chatham.	Lilly, stm., 2 tons, 23 ft., (1897), Wm. Robert- son, Rat Portage.
Laughlin, Mary A., stm., 23 tons, 43 ft., (1871), Alex. Manning and Rudolph Macdonald, Toronto.	Lilly May, stm., 10 tons, 32 ft., (1895), Henry S. Cane, Newmarket.
Laura D., sail, 26 tons, 64 ft., (1884), Chancy Daryan, Sincoe Island.	Lincoln, stm., 337 tons, 130 ft., (1888), A. G. Knowles, Sault Ste. Marie.
Laura Grace, stm., 86 tons, 76 ft., (1901), The Lake Superior Tug Co., Ltd., Port Arthur.	Linden, stm., 4 tons, 40 ft., (1902), Henry Wal- ton, Magnetawan.
Laura M., stm., 18 tons, 44 ft., (1894), John McRae, Meaford, Ont.	Lion, stm., 5 tons, 31 ft., (1902), Albert McCal- lum, Toronto.
Laura Mc., stm., 2 tons, 26 ft., (1900), Thos. McConnell, Lindsay.	Lithophone, sail, 14 tons, 55 ft., (1881), Walter G. Naish, Port Credit.
Laverdure, E. G., stm., 54 tons, 66 ft., (1889), A. Simpson, Ontario Bank, Ottawa.	Little Gem, stm., 2 tons, 24 ft., (1886), Henry Groff, Sincoe.
Leclair, stm., 1453 tons, 249 ft., (1892), Algoma Central S. S. Line, Sault Ste. Marie.	Lizzie, stm., 2 tons, 37 ft., (1881), D. K. Cow- ley, Nepean.
Leclair, stm., 1 ton, 16 ft., (1885), F. Leclair, Ottawa.	Lizzie, stm., 1 ton, 23 ft., (1885), J. Gillies, Carleton Place.
Leclair, stm., 9 tons, 46 ft., (1897), J. McGraw, Brockville.	Lizzie May, stm., 18 tons, 55 ft., (1897), James Clark, Godrich.
Le Geo. W., sail, 8 tons, 32 ft., (1876), A. Covell, Brighton.	Llano, stm., 14 tons, 53 ft., (1900), Elmore Harris, Toronto.
Le Senior, John, stm., 88 tons, 86 ft., (1888), John Lee, Sr., Wallaceburg.	Locke, P. B., sail, 305 tons, 134 ft., (1888), Michael J. Haney, Toronto.
Leeson, Margaret Jane, sail, 148 tons, 113 ft., (1870) Robt F. Latimore, Dunnville	Logie, John, stm., 37 tons, 76 ft., (1898), John Logie, Southampton.
	Longford, stm., 53 tons, 80 ft., (1887), Wm. Thomson Orillia.

- Lena, stm., 20 tons, 45 ft., (1898), H. Sibble and G. Jones, Port Matland.
- Lenore, stm., 6 tons, 39 ft., (1887), H. Dennis, Coburg.
- Leo, stm., 2 tons, 34 ft., (1896), Wm. Lawler, Hawksbury.
- Leone, stm., 4 tons, 37 ft., (1899), Frederick Huck, Rockport.
- Levi Crannell, sail, 156 tons, 111 ft., (1884), Ottawa Transportation Co., Ltd., Ottawa.
- Lewis, stm., 1 ton, 24 ft., (1887), John Bradley, Dundas.
- Lewis, W. H., sail, 156 tons, 108 ft., (1878), Ottawa Transportation Co., Ltd., Ottawa.
- Lia, sail, 21 tons, 53 ft., (1888), James Eccles, Belleville.
- Libbie, stm., 3 tons, 28 ft., (1898), Wellington McDonald, Lakefield.
- Lieuedin, Minnie, sail, 64 tons, 94 ft., (1878), C. F. Gildersleeve, Kingston.
- Lilias, stm., 2 tons, 36 ft., (1902), Thos. F. Ahern, Ottawa.
- Lillian, stm., 5 tons, 30 ft., (1893), Western Bank of Canada, Midland.
- Lillian, stm., 2 tons, 26 ft., (1896), S. G. Lindsay, Ottawa.
- Lillian, sail, 20 tons, 55 ft., (1859), James Blowers, Toronto.
- Lillian B., stm., 4 tons, 39 ft., (1896), P. P. Salter, Carleton Place.
- Lillie, stm., 3 tons, 32 ft., (1888), A. Ferguson, Prescott.
- Lillie, stm., 50 tons, 70 ft., (1881), S. J. Sanford, Barrie.
- Lillie, sail, 46 tons, 70 ft., (1884), Julia Nevau, Windsor.
- Loriellie, stm., 6 tons, 38 ft., (1899), Melville Strickland, Lakefield.
- Lorne Hall, paddle stm., 14 tons, 37 ft., (1895), J. R. Booth and Thos. Hall, Jr., Ottawa.
- Lorraine, sail, 63 tons, 81 ft., (1882), Jno. S. Phillips, Wolfe Island.
- Lothair, stm., 413 tons, 129 ft., (1872), J. C. Miller, Parry Sound.
- Lotus, stm., 5 tons, 42 ft., (1894-1901), Wm. Berry, Port Stanley.
- Lotus, sail, 56 tons, 45 ft., (1889), R. B. Rogers, Peterborough.
- Loughrin, John, sail, 36 tons, 97 ft., (1889), A. Lumsden, Ottawa.
- Louisa, stm., 6 tons, 26 ft., (1875), C. Cottrell, Sault Ste. Marie.
- Louisa, sail, 30 tons, 54 ft., (1866), Amos Little, Wallaceburg.
- Louisa, stm., 13 tons, 55 ft., (1902), John Lee, Sr., Wallaceburg.
- Louise, stm., 1 ton, 25 ft., (1887), J. E. Turgeon, Ottawa.
- Lovering, H. L., stm., 55 tons, 62 ft., (1883), Georgian Bay Lumber Co., Waubesaushene.
- Lower Traverse, sail, 142 tons, 92 ft., (—), Minister of Marine & Fisheries, Ottawa.
- Loren, Lucinda, sail, 33 tons, 58 ft., (1869), John McCormick, Pelee Island.
- Luella, stm., 38 tons, 66 ft., (1880), The Toronto Ferry Co., Ltd., Toronto.
- Luff, Sophia J., sail, 278 tons, 140 ft., (1866), Geo. Plunkett and D. Roney, Cobourg.
- Lulu, sail, 23 tons, 45 ft., (1892), Jacob H. Hensy, Rat Portage.
- Lurline, stm., 66 tons, 78 ft., (1888), J. H. Walker, Walkerville.

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Harry, sail, 166 tons, 111 ft., (1879), The Ottawa Transportation Co., Ltd., Ottawa.	Hiawatha, stm., 46 tons, 56 ft., (1895), Royal Canadian Yacht Club, Toronto.
Harvey, sail 65 tons, 70 ft., (1897), Robt. Kennedy, Lindsay.	Hickler Pauline, stm., 50 tons, 55 ft., (1892), Albert E. Bowman, Southampton.
Hastings, sail, 36 tons, 61 ft., (1898), Frank Burnett, Birdsal.	Hiesordt, P. S., stm., 45 tons, 66 ft., (1887), John Andrews, Spanish River.
Hatch, Mary, stm., 121 tons, 107 ft., (1881), Ontario & Western Lumber Co., Ltd., Rat Portage.	Highland Beauty, sail, 58 tons, 80 ft., (1876), W. E. Lobb, Picton.
Hattie Ann, sail, 51 tons, 84 ft., (1883), James Mullens, Belleville.	High View Launch, stm., 2 tons, 25 ft., (1898), Mrs. Maria McAllister, Pembroke.
Hattie H., sail, 134 tons, 108 ft., (1888), The Ottawa Transportation Co., Ltd., Ottawa.	Hill, Annie C., stm., 14 tons, 36 ft., (1890), John Forsyth, Barrie.
Hawywa, stm., 4 tons, 35 ft., (1896), J. C. Brennar, Ottawa.	Hiram, sail, 134 tons, 104 ft., (1876), R. M. Easton, Merrickville.
Hazard, stm., 34 tons, 62 ft., (1892), E. Harris, Port Dover.	†Hochelega, paddle stm., 419 tons, 178 ft., (1886), Richelieu & Ont. Nav. Co., Montreal.
Hazlett, paddle stm., 24 tons, 41 ft., (1902), The Dickson Co., Peterborough.	Hodgkins, Evelynne, stm., 4 tons, 29 ft., (1888), Freeman Hodgkins, Toronto.
Heather Belle, stm., 20 tons, 50 ft., (1882), Emerson Danagh, Owen Sound.	Holland, Grace, stm., 3 tons, 27 ft., (1901), Wm. E. Bigwood, Toronto.
Heather Belle, stm., 21 tons, 39 ft., (1896), H. J. Davis, Rat Portage.	Home Rule, stm., 81 tons, 74 ft., (1890), James B. Hackett, Amherstburg.
Heather Belle, sail, 121 tons, 93 ft., (1868), R. Gawley, Eastnor.	Home Rule, stm., 3 tons, 28 ft., (1887), Wilfred France, Penetanguishene, P. O.
Heather Belle, stm., 9 tons, 35 ft., (1902), Sidney F. McKinnon, Toronto.	Homer, sail, 25 tons, 47 ft., (1898), Robt. Kennedy, Lindsay.
Hebron, stm., 149 tons, 98 ft., (1899), Jas. H. Hall, et al., Ottawa.	Hope, sail 25 tons, 54 ft., (1866), Edward Adamson, Toronto.
Hector, stm., 43 tons, 64 ft., (1873), M. J. Hogan, Port Colborne.	Hope, stm., 170 tons, 95 ft., (1870), Bridgeburg & Black Rock Ferry Co., Ltd., Fort Erie.
Helen, stm., 5 tons, 34 ft., (1877), B. Mackie, Little Current.	Hosanna, stm., 89 tons, 58 ft., (1893), Richelieu & Ont. Nav Co., Montreal.
Helen, sail, 61 tons, 79 ft., (1882), J. H. Goldring, Toronto.	Hotchkiss, Fred, stm., 18 tons, 48 ft., (1870), Montreal.

Helen S., stm., 86 tons, 80 ft., (1899), The Col-
lin's Inlet Lumber Co., Toronto.
Helena, stm., 13 tons, 44 ft., (1877), Jos. C.
Huckins, Toronto.
Henev, John, sail, 155 tons, 111 ft., (1889), Ot-
tawa Transportation Co., Ltd., Ottawa.
Henrietta, stm., 3 tons, 28 ft., (1894), J. Ed-
wards, Hamilton.
Henry, W. J., stm., 1 ton, 22 ft., (1890), R. L.
Haycock, Ottawa.
Henry, W. J., sail, 185 tons, 111 ft., (1895), R. L.
Haycock, Ottawa.
Heburn, stm., 15 tons, 50 ft., (1901), John H.
Wilnot, Beaumaris.
Herbert, stm., 21 tons, 42 ft., (1897), James Con-
nor, Port Arthur.
Herbert, sail, 162 tons, 110 ft., (1880), The Ot-
tawa Transportation Co., Ltd., Ottawa.
Herbert M., stm., 26 tons, 43 ft., (1887), Chas.
Mickle, Gravenhurst.
Hercules, paddle stmr., 21 tons, 46 ft., (1901),
Upper Ottawa Improvement Co., Ottawa.
Hercules, sail, 91 tons, 65 ft., (1880), Thos. Reid,
Walkerville.
Héro, stm., 37 tons, 65 ft., (1861), Thos. Barrie,
Sombra, Ont.
Hewis, J. D., stm., 51 tons, 55 ft., (1892), David
Hewis, Midland.
Hewatha, paddle stmr., 22 tons, 46 ft., (1901),
R. Kennedy, Lindsay.
Hewatha, sail, 518 tons, 176 ft., (1890), Kings-
ton & Montreal Forwarding Co., Ltd., Kings-
ton.
Hewatha, stm., 163 tons, 92 ft., (1874), Port
Huron & Sarnia Ferry Co., Sarnia.

Houghton, stm., 49 tons, 60 ft., (1863), N. Dy-
mont, Barrie.
Howard, sail, 168 tons, 110 ft., (1880), The Ot-
tawa Transportation Co., Ltd., Ottawa.
Hugh S., stm., 59 tons, 50 ft., (1897), Mrs. Han-
nah N. Stalker, Collingwood.
Hume, Jessie, stm., 58 tons, 62 ft., (1894), Minis-
ter of Public Works, Ottawa.
Hunter, John, stm., 32 tons, 54 ft., (1885), James
Murray, St. Catharines.
Hurdman, R., stm., 93 tons, 103 ft., (1892), A.
Lumsden, Ottawa.
Huron, stm., 70 tons, 71 ft., (1882), The Ontario
Lumber Co., Toronto.
Huron, stm., 55 tons, 71 ft., (1898), W. Marlton,
Goderich.
Huron, sail, 475 tons, 160 ft., (1881), Kingston
& Montreal Forwarding Co., Ltd., Kingston.
Huron Belle, stm., 27 tons, 50 ft., (1889), Geo.
A. Fraser, Sincoe.
Huronic, stm., 3330 tons, 325 ft., (1902), North-
ern Nav. Co., of Ont., Ltd., Collingwood, Ont.
Hydra, stm., 6 tons, 40 ft., (1892), Seth Benson,
Deseronto.
Hygeia, stm., 2 tons, 30 ft., (1886), Samuel May,
Toronto.
Iagara, stm., 7 tons, 40 ft., (1901), Davis Dry
Dock Co., Ltd., Kingston.
Ice, sail, 41 tons, 47 ft., (1901), Chas. Perrault,
Sandwich.
Ida, stm., 17 tons, 56 ft., (1880), J. C. Edwards,
Ottawa.
Ida, sail, 58 tons, 69 ft., (1885), W. C. Edwards,
et al., Rockland.

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Lydon, Mary Ann, sail, 222 tons, 121 ft., (1874), T. F. Janes, Port Hope.	Madcap, sail, 20 tons, 52 ft., (1888), Jos. Dewsberry, Belleville.
Lyon C., stm., 19 tons, 55 ft., (1900), Mrs. Elizabeth Strle, Sorel.	Madeline, sail, 39 tons, 69 ft., (1882), Geo. Parker, Dumbarton.
McAulay, Frank G., stm., 43 tons, 67 ft., (1898), D. McAulay, Southampton.	Madge, stm., 9 tons, 36 ft., (1898), P. C. Jones, Belleville.
McBride, John, sail, 42 tons, 58 ft., (1877), Edw. Quinn, Belleville.	Maggie, stm., 37 tons, 62 ft., (1878), Edward Armstrong, Port Colborne.
McClintock, stm., 21 tons, 36 ft., (1894), R. C. Carter, Deseronto.	Maggie L., sail, 42 tons, 67 ft., (1889), Richard La Rush, Kingston.
McD. & C., No. 1, sail, 61 tons, 66 ft., (1897), John Carew, Lindsay.	Maggie May, stm., 29 tons, 51 ft., (1891), Thos. Weir, Chatham.
McD. & C., No. 2, sail, 54 tons, 62 ft., (1897), John Carew, Lindsay.	Maggie May, stm., 46 tons, 58 ft., (1889), W. Farr, Jr., Parry Sound.
McDonald, J. N., stm., 41 tons, 65 ft., (1902), J. P. McDonald, Blind River.	Magnolia, stm., 367 tons, 136 ft., (1898), Midland T. & W. Co., Ltd., Midland.
McDonald, John, stm., 24 tons, 48 ft., (1879), Ottawa Trans. Co., Ltd., Ottawa.	Mahew, James, stm., 17 tons, 40 ft., (—), Eli J. Nuttall, Port Arthur.
McDonald, M. G., stm., 29 tons, 58 ft., (1895), J. P. McDonald, Blind River.	Mahigama, stm., 20 tons, 60 ft., (1899), Mary Elizabeth Duggan, Ottawa.
McGillivray, Wm., sail, 157 tons, 111 ft., (1886), Ottawa Transportation Co., Ltd., Ottawa.	Maida, stm., 3 tons, 29 ft., (1888), T. J. Bateman, Sheguindah.
McIntosh, G. P., stm., 58 tons, 78 ft., (1888), John McAulay, Wiarton.	Maid of the Mist, stm., 62 tons, 71 ft., (1885), Richard Carter, Niagara Falls.
McKay, Bertha, sail, 158 tons, 110 ft., (1890), Wm. Morissette, Rat Portage.	Main, Florence, stm., 79 tons, 82 ft., (1901), Al-ired Mortimer, Mortimer's Point.
McKenzie, R. S., sail, 154 tons, 109 ft., (1881), Ottawa Transportation Co., Ltd., Ottawa.	Maitland, Thos., stm., 107 tons, 89 ft., (1899), J. W. Mainland, Owen Sound.
McKeon, James, stm., 36 tons, 52 ft., (1898), Blind River Towing Co., Ltd., Sarnia.	Majestic, stm., 1578 tons, 225 ft., (1895), North-ern Nav. Co. of Ont., Ltd., Collingwood.
McLaren, James, sail, 169 tons, 110 ft., (1879), Ottawa Transportation Co., Ltd., Ottawa.	Majestic, stm., 135 tons, 82 ft., (1898), Walter Ross, Rat Portage.
McLean Bros., stm., 2 tons, 22 ft., (1900), Frank H. McLean, Stratford.	Majestic, stm., 68 tons, 76 ft., (1897), P. P. Young, Young's Point.
McLean, Maggie, stm., 37 tons, 69 ft., (1886), French River Boon Co., Essex.	Malta, sail, 198 tons, 137 ft., (1868), Mrs. Mary M. Blodgett, Windsor.

McLean, R. A., stm., 30 tons, 49 ft., (1873), Mrs. Margaret McLean, Sault Ste. Marie.	Maneta, stm., 34 tons, 66 ft., (1900), Geo. A. Smith, Bobcaygeon.
McMaugh, Heward, stm., 42 tons, 47 ft., (1898), M. F. Davis, Ottawa.	Manicougan, sail, 143 tons, 92 ft., (—), Min- ister of Marine & Fisheries, Ottawa.
McPherson, R. B., stm., 30 tons, 53 ft., (1872), James Morrow, Collingwood.	Manistique, stm., 473 tons, 157 ft., (1882), Jas. Reid & Sons, Sarnia, Ont.
McRae, Wm. F., stm., 46 tons, 65 ft., (1880), J. Mayhew, Moore.	†Manitoba, stm., 2616 tons, 305 ft., (1889), Cana- dian Pacific Ry. Co., Owen Sound.
McVea, E. J. sail, 278 tons, 140 ft., (1873), W. W. Stover, Sombra.	Manitoba, sail, 80 tons, 87 ft., (1872), Adam Foster, Smith's Falls.
Mabel, stm., 11 tons, 39 ft., (1886), R. Miller and J. Miller, Ingersoll.	Manitoba, sail, 75 tons, 103 ft., (1882), Benjamin Tett, Bedford Mills.
Mabel, sail, 59 tons, 87 ft., (1883), Wm. Jones, Belleville.	Manitou, stm., 470 tons, (1903), Dominion Fish Co., Goderich.
Mabel C., stm., 4 tons, 25 ft., (1893), Dept. of Interior, Ottawa.	Manly, Geo., sail, 284 tons, 142 ft., (1871), W. A. Clark, Jr., et al., Collingwood.
Mabel G., sail, 82 tons, 50 ft., (1899), W. M. Thompson, Penetanguishene.	Manolia, stm., 6 tons, 30 ft., (1898), S. A. Min- nett, Cleavelands.
Mabel G., stm., 10 tons, 36 ft., (1898), Wm. McM. Thompson, Penetanguishene.	Mansfield, stm., 169 tons, 104 ft., (1889), Mrs. Anna Mansfield, Ottawa.
Mabel M., 7 tons, 39 ft., (1901), Andrew Camp- bell, Port Elgin.	Maple Leaf, stm., 12 tons, 37 ft., (1892), S. Brown, Bracebridge, Ont.
Mac, Jennie, stm., 5 tons, 33 ft., (1899), C. B. McAllister, Peterborough.	Maple Leaf, stm., 7 tons, 38 ft., (1891), Gardner Boyd, Toronto.
†Macassa, stm., 459 tons, 154 ft., (1888), Hamil- ton Sibt. Co. Ltd., Hamilton.	Maple Leaf, stm., 11 tons, 35 ft., (1898), Robt. J. Larkin, Hamilton.
MacCuaig, R. C. W., sail, 165 tons, 108 ft., (1879). Ottawa Transportation Co., Ltd., Ottawa.	Maple Leaf, stm., 26 tons, 59 ft., (1884), Ken- nedy & Davis Milling Co., Ltd., Lindsay.
Macdonald, Mabel, stm., 42 tons, 64 ft., (1891), Alexander Manning and R. Macdonald, Toronto.	Maple Leaf, 82 tons, 69 ft., (1899), The Rainy River Nav. Co., Ltd., Rat Portage.
Macfarlane, Lilly, sail, 14 tons, 44 ft., (1872), Lionel York, Toronto.	Maple Leaf, sail, 28 tons, 47 ft., (1871-1890), Wm. Berry, Pt. Stanley.
Madawaska, stm., 15 tons, 37 ft., (1893), H. F. McLachlin, Arnprior.	Maple Leaf, sail, 59 tons, 70 ft., (1886), Richard Goldring, Toronto.
	Maple Leaf, sail, 34 tons, 62 ft., (1890), Walter Ross, Rat Portage.

FROM THE BLUE BOOK OF AMERICAN SHIPPING. COPYRIGHTED, 1904.

CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Marchmont, S. W., stm., 89 tons, 97 ft., (—), S. W. Marchmont, Toronto.	Maud S., sail, 25 tons, 52 ft., (1884), A. Walker, Port Credit.
Margherita, stm., 31 tons, 57 ft., (1899), James Playfair, Midland.	Maude, stm., 19 tons, 60 ft., (1902), J. Cooper, Chatham.
Marguerite, stm., 8 tons, 35 ft., (1879), John Anderson, Windsor.	Max, sail, 26 tons, 57 ft., (1886), Ontario & Western Lumber Co., Ltd., Rat Portage.
Maria Annetre, sail, 196 tons, 125 ft., (1867), R. Henning, Port Hope.	Maxie, stm., 16 tons, 44 ft., (1898), Wm. J. Taylor, Port Matland.
Maria, stm., 12 tons, 42 ft., (1895), J. Galna, Farry Sound.	May, sail, 165 tons, 110 ft., (1880), Ottawa Transportation Co., Ltd., Ottawa.
Marie, stm., 3 tons, 34 ft., (1895), Wm. Black, Belleville.	May, Allena, paddle stm., 11 tons, 47 ft., (1897), H. Walker and Chas. J. Smith, Walker's Point.
Marie Louise, stm., 32 tons, 51 ft., (1900), Jos. Briggs Parkin, Lindsay.	May B., stm., 10 tons, 49 ft., (1900), C. C. Bates, Clear Creek.
Marie Stella, sail, 143 tons, 107 ft., (1893), J. Donnelly, Jr., Kingston.	May Bird, stm., 46 tons, 76 ft., (1893), G. Hastings and S. W. Marchmont, Toronto.
Marks, Kate, stm., 54 tons, 52 ft., (1875), Thos. Marks, Port Arthur.	May Flower, stm., 26 tons, 49 ft., (1890), F. Morrua, Waubaushene.
Marmora, stm., 13 tons, 35 ft., (1896), Geo. B. Blecker, Marmora.	May Flower, stm., 6 tons, 25 ft., (1897), Elizabeth Donnell, Peterborough.
Marquis of Lorne, stm., 20 tons, 54 ft., (1874), T. G. Brigham, Ottawa.	†Mayflower, paddle stm., 189 tons, 140 ft., (1890), Toronto Ferry Co., Ltd., Toronto.
Martha, stm., 2 tons, 28 ft., (1902), Mrs. Martha Wessels, Kingston.	Mayhew, James, stm., 17 tons, 40 ft., (1893), Eli J. Nutall, Port Arthur.
Martha Ann, sail, 38 tons, 83 ft., (1876), P. M. Frederick, Belleville.	May, Minnie, paddle stm., 10 tons, 42 ft., (1894), John R. Phillips, Cobocook.
Martin, D. A., stm., 78 tons, 84 ft., (1889), A. Lumsden, Ottawa.	May, Rosey, stm., 4 tons, 28 ft., (1898), Geo. Gerard, Nepigon.
Martin, Minnie, stm., 10 tons, 30 ft., (1882), Chas. Martin, Port Severn.	Maytham, Geo., stm., 40 tons, 53 ft., (1870), D. B. McCrae, Meldrum Bay.
Mary, stm., 62 tons, 64 ft., (1874), P. Larkin, St. Catherine's.	Mazeppa, stm., 146 tons, 101 ft., (1884), J. H. McLaughlin, Owen Sound.
Mary, stm., 2 tons, 22 ft., (—), J. Stewart McCracken, Ottawa.	M R & Co No 1 sail 87 tons. 86 ft.. (1892).

- Mary Ann, sail, 57 tons, 78 ft., (1867), Pigeon River Lumber Co., Port Arthur.
- Mary Ellen, paddle stmr., 81 tons, 55 ft., (1868), Wm. Needler, Lindsay.
- Mary Ellen, stmr., 20 tons, 57 ft., (1896), J. Jessamin and M. Jessamin, Cornwall.
- Mary Ethel, paddle stmr., 99 tons, 93 ft., (1879), Trenton & Bay of Quinte Nav. Co., Ltd., Trenton.
- Mary Louise, sail, 46 tons, 77 ft., (1902), Wesley Brooker, Newbaro.
- Mary Louise, stmr., 64 tons, 68 ft., (1884), Geo. F. Marsh, Huntsville.
- Mary R., stmr., 44 tons, 47 ft., (1897), David McLeod, Port Colborne.
- Mascotte stmr., 21 tons, 52 ft., (1890), James Pilgrim, Meaford.
- Mascotte, stmr., 49 tons, 70 ft., (1886), The Toronto Ferry Co., Ltd., Toronto.
- Mason, Maggie, stmr., 56 tons 53 ft., (1882), O. Matthews and A. Matthews, St. Catharines.
- Masonic, stmr., 39 tons, 58 ft., (1893), Penetanguishene Nav. Co., Ltd., Penetanguishene.
- Mather, D. L., stmr., 103 tons, 92 ft., (1882), Keewatin Lumbering & Mfg. Co., Ltd., Hamilton.
- Matthews, W. D., str., (1903), H. G. Hagerty, Toronto, Can.
- Maud, stmr., 40 tons, 71 ft., (1887), David Davidson, Penetanguishene.
- Maud C., stmr., 5 tons, 30 ft., (1897), Thos. Craigie, Rosport.
- Maud L., stmr., 14 tons, 45 ft., (1888), Mrs. Naomi Hurley, Kingston.
- Maud S., stmr., 14 tons, 44 ft., (1889), H. N. Truesdell, Collingwood.
- M. B. & Co., No. 2, sail, 99 tons, 88 ft., (1890), Mossom M. Boyd, Bobcaygeon.
- M. B. & Co., No. 3, sail, 100 tons, 80 ft., (1892), Mossom M. Boyd, Bobcaygeon.
- M. B. & Co., No. 4, sail, 76 tons, 70 ft., (1890), Mossom M. Boyd, Bobcaygeon.
- Medora, stmr., 377 tons, 122 ft., (1893), The Muskoka & Georgian Bay Nav. Co., Ltd., Gravenhurst.
- Melbourne, stmr., 894 tons, 179 ft., (1893), Merchants Line, G. E. Jaques & Co., Montreal, real.
- Melrose, sail, 740 tons, 133 ft., (1895), Montreal Transportation Co., Montreal.
- Menodora, stmr., 73 tons, 67 ft., (1901), Midland Towing & Wrecking Co., Ltd., Midland.
- Merle, sail, 11 tons, 39 ft., (1887), Alex McL. Macdonald, Toronto.
- Mermaid, sail, 19 tons, 58 ft., (1889), Robert Mosher, Port Frances.
- Mermaid, sail, 9 tons, 36 ft., (1885), Robt. Sutor, Cayuga.
- Merritt, C. H., stmr., 122 tons, 85 ft., (1883), A. M. Clark, Marysburgh.
- Merry-thought, sail, 39 tons, 56 ft., (1895), Geo. H. Gooderham, Toronto.
- Messenger, sail, 94 tons, 84 ft., (1882), Geo. Moberley, Collingwood.
- Metamora, stmr., 239 tons, 115 ft., (1864), Midland T. & W. Co., Ltd., Midland.
- Meteor, stmr., 299 tons, 130 ft., (1897), A. Lumsden, Ottawa.
- Meteor, stmr., 47 tons, 52 ft., (1902), Geo. Ross, Port Robinson.
- Metzner, Lizzie, sail, 77 tons, 73 ft., 81x21, (1888), Capt. Daricau, Simcoe Island.
- M. B. & Co., No. 2, sail, 99 tons, 88 ft., (1890), Mossom M. Boyd, Bobcaygeon.
- M. B. & Co., No. 3, sail, 100 tons, 80 ft., (1892), Mossom M. Boyd, Bobcaygeon.
- M. B. & Co., No. 4, sail, 76 tons, 70 ft., (1890), Mossom M. Boyd, Bobcaygeon.
- Medora, stmr., 377 tons, 122 ft., (1893), The Muskoka & Georgian Bay Nav. Co., Ltd., Gravenhurst.
- Melbourne, stmr., 894 tons, 179 ft., (1893), Merchants Line, G. E. Jaques & Co., Montreal, real.
- Melrose, sail, 740 tons, 133 ft., (1895), Montreal Transportation Co., Montreal.
- Menodora, stmr., 73 tons, 67 ft., (1901), Midland Towing & Wrecking Co., Ltd., Midland.
- Merle, sail, 11 tons, 39 ft., (1887), Alex McL. Macdonald, Toronto.
- Mermaid, sail, 19 tons, 58 ft., (1889), Robert Mosher, Port Frances.
- Mermaid, sail, 9 tons, 36 ft., (1885), Robt. Sutor, Cayuga.
- Merritt, C. H., stmr., 122 tons, 85 ft., (1883), A. M. Clark, Marysburgh.
- Merry-thought, sail, 39 tons, 56 ft., (1895), Geo. H. Gooderham, Toronto.
- Messenger, sail, 94 tons, 84 ft., (1882), Geo. Moberley, Collingwood.
- Metamora, stmr., 239 tons, 115 ft., (1864), Midland T. & W. Co., Ltd., Midland.
- Meteor, stmr., 299 tons, 130 ft., (1897), A. Lumsden, Ottawa.
- Meteor, stmr., 47 tons, 52 ft., (1902), Geo. Ross, Port Robinson.
- Metzner, Lizzie, sail, 77 tons, 73 ft., 81x21, (1888), Capt. Daricau, Simcoe Island.

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Midland King, stm., about 3850 tons, 358 ft., (1903), Midland Nav. Co., Midland.	Mischief, stm., 9 tons, 31 ft., (1886), H. E. C. Carey, Bruce Mines.
Midland Queen, stm., 1998 tons, 249 ft., (1901), Midland Nav. Co., Midland.	Mitchell, Maggie R., stm., 40 tons, 50 ft., (1879), Mary Jane Matthews, Port Colbourne.
Mikado, stm., 25 tons, 40 ft., (1897), The Mikado Gold Mining Co., Rat Portage.	Mizpah, stm., 2 tons, 25 ft., (1888), A. H. Cottingham, Lindsay.
Mikado, stm., 1 ton, 25 ft., (1886), John J. Douglas, Owen Sound.	Mizpah, stm., 18 tons, 51 ft., (1889), Thos. McCarroll and H. Manley, Toronto.
Mildred, stm., 5 tons, 34 ft., (1895), J. A. Wheeler, Belleville.	†Modjeska, stm., 678 tons, 178 ft., (1889), Hamilton Sbt. Co., Ltd., Hamilton.
Mills, J. E., stm., 179 tons, 108 ft., (1883), —	Mohawk sail 341 tons, 154 ft., (1872), Geo. Hall Coal Co., Ogdensburg, N. Y.
Milne, John, stm., 109 tons, 102 ft., (1894), John Randell, Seeley's Bay.	Mohican, stm., 34 tons, 50 ft., (1896), F. W. Coates, et al., Fort Frances.
Milton, Joe, stm., 93 tons, 92 ft., (1891), Jas. V. Crawford, Warton.	Moiles, Annie, stm., 71 tons, 81 ft., (1865), Boultelle Towing & Wrecking Co., Ltd., Sarnia.
Minden, stm., 4 tons, 30 ft., (1880), James Lunan, Minden.	Mollie, stm., 11 tons, 41 ft., (1897), J. J. McBain, Peterborough.
Minerva, stm., 4 tons, 33 ft., (1891), James Irwin, Hamilton.	Molly S., stm., 45 tons, 68 ft., (1901), Chas. L. T. Sims, Manitowaning.
Minutaga, stm., 73 tons, 77 ft., (1898), James Playfair, Midland.	Mona, stm., 25 tons, 54 ft., (1889), Wm. H. Davis, Ottawa.
Mink, stm., 56 tons, 72 ft., (1891), Wm. Hanna, Port Carling.	Mona, stm., 2 tons, 23 ft., (1894), J. Bradley, Hamilton.
Mink, stm., 14 tons, 37 ft., (1896), A. Lumsden, Ottawa.	Monarch, stm., 2017 tons, 258 ft., (1890), Northern Nav. Co. of Ont., Collingwood.
Mink, sail, 19 tons, 52 ft., (1880), Muskoka & Nipissing Nav. Co., Gravenhurst.	Monarch, paddle stm., 168 tons, 110 ft., (1893), E. W. Brydges, Rat Portage.
Minne May, paddle stm., 10 tons, 42 ft., (1894), John R. Phillips, Cobocouk.	Moneta, stm., 1 ton, 20 ft., (1888), R. Lamb and J. Robertson, Ottawa.
Minnedosa, sail, 1041 tons, 245 ft., (1890), Montreal Trans. Co., Montreal.	Monitor, sail, 25 tons, 57 ft., (1864), Richard LaRush, et al., Kingston.
Minnehaha, sail, 133 tons, 42 ft., (1898), David Davidson, Pentanguishene.	Monkshaven, stm., 1415 tons, 249 ft., (1882), Algoma S. S. Line, Sault Ste. Marie.

Port Arthur.

Minnochaha, stm., 32 tons, 60 ft., (1882), John C. Miller, Parry Sound.
 Minnecola, stm., 9 tons, 37 ft., (1893), Glass Reef Gold Mining Co., Ltd., Little Mountain.
 Minnes, Annie, sail, 155 tons, 101 ft., (1867-1881), W. H. Braund, Port Hope.
 Minnetonka, stm., 68 tons, 55 ft., (1891-1900), H. W. Kennedy and W. Ross, Rat Portage.
 Minnette, stm., 4 tons, 36 ft., (1899), C. J. C. Crump, Dwight.
 Minnicog, stm., 35 tons, 56 ft., (1902), J. C. Cantley, Pencanguishene.
 Minnie, sail, 17 tons, 40 ft., (1878), James Cooper, South Bay.
 Minnie, sail, 8 tons, 38 ft., (1880), Jos. Adamson, Toronto.
 Minnie, sail, 63 tons, 92 ft., (1881), James Playfair, Midland.
 Minnie, sail, 109 tons, 95 ft., (1873), John Eligh and Peter Eligh, Beckett's Landing.
 Minnie D., stm., 3 tons, 24 ft., (1889), J. Larson, Parry Sound.
 Minnie M., 613 tons, 140 ft., (1884), Algoma Central S. S. Line, Sault Ste. Marie.
 Minnitaga, stm., Midland Towing & Wkg. Co., Ltd., Midland.
 Minota, stm., 29 tons, 65 ft., (1891), E. B. Osler, Toronto.
 Minota, stm., 35 tons, 63 ft., (1890), J. Bowman, Rosspport.
 Minoto, stm., 1090 tons, 225 ft., (1899), Minister of Marine & Fisheries, Ottawa.

J. Poupore, Ottawa.

Moose, stm., 38 tons, 54 ft., (1893), Samuel Naden, Roddick, Rainy River.
 Moravia, sail, 53 tons, 81 ft., (1882), S. H. Phippen, Belleville.
 Mordeu, Dolly, sail, 198 tons, 121 ft., (1881), G. H. Morden, Oakville.
 Morning Light, sail, 14 tons, 45 ft., (1876), H. I. Stricker, Shrewsbury.
 Morning Star, stm., 5 tons, 34 ft., (1894), Jos. Goodwin, Toronto.
 Morning Star, 47 tons, 66 ft., (1875), Jos. Adamson, Toronto.
 Morrell, R. J., stm., 40 tons, 68 ft., (1901), James Pilgrim, Meaford.
 Morse, Geo. H., sail, 162 tons, 112 ft., (1886), Ottawa Transportation Co., Ltd., Ottawa.
 Mott, J. T., sail, 309 tons, 137 ft., (1869), J. McAulay, Warton.
 Mowat, Oliver, sail, 244 tons, 131 ft., (1873), Elias Rogers, Toronto.
 Muir, A., sail, 330 tons, 138 ft., (1874), Wm. Muir, Port Dalhousie.
 Mulgrave, stm., 485 tons, 114 ft., (1893), Dept. of Railways and Canals, Ottawa.
 Mulligan, D. B., stm., 77 tons, 81 ft., (1897), John Ryan, Pembroke.
 Muriel, sail, 192 tons, 121 ft., The Ottawa Transportation Co., Ltd., Ottawa.
 Murphy, J. L., stm., 173 tons, 101 ft., (1888), Upper Ottawa Improvement Co., Ottawa.
 Murray, Kate, stm., 3 tons, 36 ft., (1878), Mrs. Mary J. Vanderburgh, Port Carling.
 Murton, Ella, sail, 229 tons, 118 ft., (1875), E. A. LeBel, Sarnia.

CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Muskoka, stm., 197 tons, 94 ft., (1881), The Muskoka & Nipissing Nav. Co., Gravenhurst.
 Muskoka, paddle stm., 22 tons, 35 ft., (—), Gilmour & Co., Trenton.
 Muskoka, sail, 481 tons, 149 ft., (1872-1896), Collin's Bay Rafting & Forwarding Co., Ltd., Kingston.
 ‡Myles, stm., 1199 tons, 175 ft., (1882), Myles Transportation Co., Ltd., Hamilton.
 Myra, stm., 73 tons, 82 ft., (1884), James Buckley, Prescott.
 Myrtle, stm., 9 tons, 39 ft., (1880), David Ward, Toronto.
 Myrtle, stm., 5 tons, 33 ft., (1901), Herbert Watt, Peterborough.
 Naiad, stm., 7 tons, 41 ft., (1890), T. G. Brigham, Ottawa.
 Naiad, sail, 311 tons, 140 ft., (1863). ———
 Naiad, stm., 29 tons, 68 ft., (1890), H. S. Sanford, Hamilton.
 Naiad, stm., 15 tons, 51 ft., (1888), W. H. Montray, Amherst Island.
 Naomi, sail, 196 tons, 122 ft., (1886), Ottawa Transportation Co., Ltd., Ottawa.
 Nautilus, stm., 9 tons, 31 ft., (1889), Frank Freeman, Port Dalhousie.
 Ned, sail, 152 tons, 109 ft., (1881), Ottawa Transportation Co., Ltd., Ottawa.
 Neelon, Harvey, stm., 65 tons, 74 ft., (1876), M. Lemoux, Midland.
 Neelon, Sylvester, 291 tons, 137 ft., (1875), Collins Bay Rafting & Forwarding Co., Kingston, Ont.

Niska, stm., 9 tons, 36 ft., (1897), Robt. J. Stroud, Milford Bay.
 No. 1, sail, 57 tons, 64 ft., (1895), H. F. Cumming and J. B. McMillan, Cornwall.
 No. 1, sail, 74 tons, 91 ft., (1895), W. C. Edwards & Co., Ltd., Rockland.
 No. 1, sail, 14 tons, 37 ft., (1893), H. F. McLachlin and Claude McLachlin, Arnprior.
 No. 1, sail, 31 tons, 50 ft., (1894), Peter Whelan, Ottawa.
 No. 2, sail, 31 tons, 49 ft., (1893), H. F. McLachlin and Claude McLachlin, Arnprior.
 No. 2, sail, 24 tons, 40 ft., (1895), Peter Whelan, Ottawa.
 No. 2, sail, 74 tons, 91 ft., (1895), W. C. Edwards & Co., Ltd., Rockland.
 No. 5, sail, 7 tons, 34 ft., (1898), Hugh Fleming, Cornwall.
 No. 31, sail, 17 tons, 40 ft., (1898), E. G. Laverdure, Ottawa.
 No. 33, sail, 17 tons, 40 ft., (1898), E. G. Laverdure, Ottawa.
 No. 34, sail, 91 tons, 91 ft., (1870), David Gilmour, Trenton.
 No. 36, sail, 91 tons, 92 ft., (1870), David Gilmour, Trenton.
 No. 37, sail, 89 tons, 91 ft., (1870), David Gilmour, Trenton.
 No. 1, Calumet, sail, 32 tons, 51 ft., (1898), Upper Ottawa Improvement Co., Ottawa.
 No. 2, Calumet, sail, 32 tons, 51 ft., (1898), Upper Ottawa Improvement Co., Ottawa.
 No. 5, Deep River, sail, 28 tons, 52 ft., (1899), Upper Ottawa Improvement Co., Ottawa.

- Nellie, stm., 7 tons, 39 ft., (1882), J. N. Leeman,
Smith's Falls.
- Nellie, stm., 2 tons, 25 ft., (1886), R. Campbell,
Bracebridge.
- Nellie S., stm., 3 tons, 20 ft., (1885), Geo.
Sutherland, Essex Centre.
- Nellie T., stm., 5 tons, 36 ft., (1894), Michael
Dovey, Lindsay.
- Nemesis, sail, 82 tons, 73 ft., (1868), J. H.
Spence, Southampton.
- Neva, sail, 148 tons, 110 ft., (1881), Ottawa
Transportation Co., Ltd., Ottawa.
- Neville, sail, 158 tons, 112 ft., (1886), Ottawa
Transportation Co., Ltd., Ottawa.
- New Dominion, sail, 196 tons, 117 ft., (1868),
Geo. H. Morden, Oakville.
- New Ontario, sail, 17 tons, 50 ft., (1898), James
Whalen, Port Arthur.
- Newsboy, sail, 40 tons, 67 ft., (1885), Lemuel
Dorland, Bronte.
- †Niagara, stm., 306 tons, 159 ft., (1856-1901), A.
W. Hepburn, Picton.
- Nile, stm., 96 tons, 90 ft., (1870), Deseronto
Nav. Co., Deseronto.
- Nile, sail, 151 tons, 74 ft., (1881), Ottawa Trans-
portation Co., Ltd., Ottawa.
- Nilka, stm., 1 ton, 24 ft., (1897), John Jamieson,
et al., Ottawa.
- Nina, stm., 11 tons, 32 ft., (1889), J. Cooper,
Chatham.
- Ninsongis, paddle stm., 7 tons, 45 ft., (1894),
The Ont. & Western Lumber Co., Rat Port-
age.
- Nipissing, paddle stm., 275 tons, 125 ft., (1887),
Muskoka & Nipissing Nav. Co., Graven-
hurst.
- No. 6, Deep River, sail, 28 tons, 52 ft., (1899),
Upper Ottawa Improvement Co., Ottawa.
- No. 1, Quyon, sail, 32 tons, 51 ft., (1898), Up-
per Ottawa Improvement Co., Ottawa.
- No. 2, Quyon, sail, 32 tons, 51 ft., (1898), Up-
per Ottawa Improvement Co., Ottawa.
- Nobby, stm., 2 tons, 25 ft., (1883), Thos. Rob-
son, Fenelon Falls.
- Nocross, stm., 20 tons, 45 ft., (1887), The French
River Boom Co., Toronto.
- Noget, sail, 68 tons, 69 ft., (1898), Robt. Ken-
nedy, Lindsay.
- Nokomis, stm., 25 tons, 55 ft., (1887), W. C.
Edwards, Rockland.
- Nora, stm., 20 tons, 44 ft., (1895), D. L. Mather,
Rat Portage.
- Norah, sail, 30 tons, 52 ft., (1880), R. C. Smith,
Port Hope.
- Nore, sail, 95 tons, 91 ft., (1866), E. LaRiviere,
Plantagenet.
- North King, paddle stm., 873 tons, 175 ft.,
(1868-1891), Lake Ont. & Bay of Quinte
Sbdt. Co., Kingston.
- North River, paddle stm., 22 tons, 50 ft., (1899),
H. F. McLachlin and Claude McLachlin,
Arnprior.
- North Star, stm., 40 tons, 84 ft., (1895), W. C.
Harris, Gore's Landing.
- North West, sail, 57 tons, 75 ft., (1882), Edmund
Goldring and Francis Goldring, Whitby.
- Northern Light, stm., 393 tons, 133 ft., (1870),
Minister of Marine & Fisheries, Ottawa.
- Norway, sail, 332 tons, 135 ft., (1873-1881), M.
Mahoney, Hamilton.
- Nosbonsing, stm., 25 tons, 56 ft., (1884), J. R.
Booth, Ottawa.

CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Notter, G. H., stm., 14 tons, 42 ft., (1881), Ottawa Transportation Co., Ltd., Ottawa.	Orion, stm., 846 tons, 173 ft., (1872), Collin's Bay Rating & Forwarding Co., Kingston.
Novelty, paddle stm., 65 tons, 80 ft., (1861), Mossum Boyd, Bobcaygeon.	Oscar, sail, 122 tons, 96 ft., (1888), Hiram Easton, Merrickville.
Nymoca, stm., 25 tons, 52 ft., (1886), G. F. Beau- mont, Muskoka.	Osirius, sail, 106 tons, 109 ft., (1892), P. Larkin, St. Catharines, and A. Sangster, Iroquois.
Nymph, stm., 29 tons, 75 ft., (1902), Robt. J. Stroud, Milford Bay.	Osprey, stm., 6 tons, 32 ft., (1895), Dan Lang, Aldborough.
O'Brien, J. V., stm., 59 tons, 70 ft., (1888—re- built 1892), Wm. E. Bigwood, Byng Inlet.	Osprey, stm., 42 tons, 72 ft., (1902), James Pur- vis, Gore Bay.
Ocean, stm., 684 tons, 137 ft., (1872), Went- worth Nav. Co., Toronto.	Ossifrage, stm., 632 tons, 161 ft., (1886), Algoma Central S. S. Line, Sault Ste. Marie.
Ocean Lily, stm., 3 tons, 29 ft., (1887), Edward Brooks, Red Bay.	Oso, stm., 6 tons, 41 ft., (1902), John H. Wil- mott, Beaumaris.
Odessa, stm., 12 tons, 32 ft., (1894), A. L. Nick- erson, Midland.	Oswell, J. N., sail, 112 tons, 105 ft., (1875), Richard Waters, Belleville.
Ogema, paddle stm., 72 tons, 85 ft., (1889), Trent Valley Nav. Co., Bobcaygeon.	Otanbee, sail, 47 tons, 69 ft., (1900), R. B. Rogers, Peterborough.
Ojibawaya, stm., 1 ton, 16 ft., (1902), Mrs. F. A. Price, Missanaga.	Otonabee, sail, 80 tons, 87 ft., (1872), Thos. Mof- fat, Perth.
Oldfield, W. S., stm., 15 tons, 42 ft., (1898), W. H. Oldfield, Parry Sound.	Ottawa, stm., 158 tons, 116 ft., (1892), The Min- ister of Marine & Fisheries, Ottawa.
Olea, stm., 5 tons, 33 ft., (1896), John McLaren, Brockville.	Ottawa, stm., 21 tons, 56 ft., (1888), Minister of Public Works, Ottawa.
Olive, stm., 151 tons, 95 ft., (1875), The Ottawa Forwarding Co., Ltd., Ottawa.	Ottawa, stm., 1 ton, 26 ft., (1887), H. F. Mc- Lachlin and Claude McLachlin, Arnprior.
Olive, stm., 2 tons, 25 ft., (1895), G. W. Leach, et al., North Bay.	†Ottawa, stm., 2431 tons, 256 ft., (1900), Canada- Atlantic Trans. Co., Ottawa.
Olive Branch, sail, 16 tons, 51 ft., (1875), Mrs. Charlotte Reid, Township of Toronto.	Ottawa, sail, 130 tons, 76 ft., (1889), W. H. Davis, Ottawa.
Olympia, sail, 23 tons, 57 ft., (1879), Jos. Featherston, Port Credit.	Ottawa, str., 610 tons, 151 ft., (1861), Reid Wrecking Co., Sarnia.
	Otter, paddle stm., 21 tons, 48 ft., (1895), Alex. Lumsden, Ottawa.

- Onaganoh, stm., 19 tons, 47 ft., (1887), H. Fraser, Cockburn.
- Onananche, stm., 1 ton, 23 ft., (1896), E. A. Parsons, et al., Ottawa.
- One, sail, 17 tons, 56 ft., (1895), Rainy River Nav. Co., Ltd., Rat Portage.
- Ongiara, 98 tons, 90 ft., (1885), The Niagara Nav. Co., Ltd., Toronto.
- Onondaga, sail, 320 tons, 135 ft., (1870), Geo. Hall Coal Co., Ogdensburg, N. Y.
- Ontario, sail, 150 tons, 105 ft., (1867), Francis Graville, Southampton.
- Ontario, sail, 56 tons, 56 ft., (1868), J. Swift, Kingston.
- Ontario, stm., 11 tons, 43 ft., (1881), R. Walker, Township of Wood.
- Ontario, stm., 41 tons, 63 ft., (1870), J. W. Steinhoff, Wallaceburg.
- Ontario, paddle stm., 80 tons, 58 ft., (1868), J. Thurston, Lindsay.
- †Ontario, stm., 16½ tons, (1890), Canadian Pacific Ry. Co., Montreal.
- Onward, stm., 22 tons, 57 ft., (1902), John McGaw, Kincardine.
- Opbir, stm., 11 tons, 41 ft., (1902), Milton Pearce, Parry Sound.
- Orcadia, stm., 23 tons, 54 ft., (1888), John Morrison, Port Coldwell.
- Orcadia, stm., 26 tons, 52 ft., (1894), J. Playfair, Midland.
- Oriana, stm., 3 tons, 29 ft., (1899), James Glass, Little Britain.
- Orle, stm., 75 tons, 75 ft., (1886), Muskoka & Nipissing Nav. Co., Gravenhurst.
- Orle, sail, 50 tons, 85 ft., (1886), Geo. Gooderham, Toronto.
- Owen, stm., 103 tons, 90 ft., (1884), Wm. Simmons, Owl (The), stm., 4 tons, 32 ft., (1887), L. J. Courtice, Courtrice.
- Ox, sail, 130 tons, 104 ft., (1873), Alex. Gunn, Kingston.
- †Paliki, stm., 1598 tons, 240 ft., (1889), Algoma Central S. S. Line, Sault Ste. Marie.
- Paloma, sail, 122 tons, 99 ft., (1885), Trent Valley Nav. Co., Ltd., Bobcaygeon.
- Parsons, Minnie F., stm., 46 tons, 59 ft., (1868), F. B. Hackett, Amherstburg.
- Parthenon, sail, 56 tons, 62 ft., (1877), Robt. McDonald, Hallowell.
- Parthia, paddle stm., 198 tons, 126 ft., (1896), The Calvin Co., Ltd., Garden Island.
- Pastime, stm., 15 tons, 42 ft., (1901), J. A. McCrossen, Rat Portage.
- Pattee, G. B., stm., 30 tons, 61 ft., (1882), Upper Ottawa Improvement Co., Ottawa.
- Pattee, G. B., sail, 157 tons, 107 ft., (1878), Ottawa Transportation Co., Ltd., Ottawa.
- Paul, N., sail, 126 tons, 100 ft., (1890), Wm. J. Poupore, Morrisburg.
- Pearl, stm., 6 tons, 35 ft., (1902), Robt. G. Aird, Parry Sound.
- Pearl, stm., 6 tons, 35 ft., (1899), James Lewis, Bobcaygeon.
- Pearl, stm., 8 tons, 30 ft., (1885), H. Calcutt, Peterborough.
- Pellatt, H. M., stm., 1591 tons, 240 ft., Canadian Lake & Ocean Nav. Co., Toronto.
- Pembroke, paddle stm., 194 tons, 104 ft., (1895), The Upper Ottawa Improvement Co., Ottawa.

CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Penetang, stm., 100 tons, 82 ft., (1901), First Brook Box Co., Ltd., Toronto.	Port Elgin Queen, stm., 97 tons, 52 ft., (1886), David Porter, Warton.
Pew, Frank, 43 tons, 72 ft., (1867), Minister of Railways and Canals, Ottawa.	Porter, Lloyd S., 489 tons, 159 ft., (1893), Arthur W. Hepburn, Picton.
Penley, W. G., sail, 164 tons, 107 ft., (1878), Ottawa Trans. Co., Ltd., Ottawa.	Portsmouth, sail, 183 tons, 108 ft., (1872-1882), S. T. Easton, Ottawa.
Persia, stm., 757 tons, 144 ft., (1873), Toronto & Montreal Sbt. Co., Ltd., Toronto.	Poupore, W. J., stm., 47 tons, 70 ft., (1881), W. J. Poupore, Morrisburg.
Peruvian, sail, 54 tons, 97 ft., (1888), J. Shappie, Belleville.	Powell, C. B., paddle stm., 272 tons, 139 ft., (1887), Upper Ottawa Improvement Co., Ottawa.
Petrel, stm., 346 tons, 129 ft., (1892), Collin's Bay Rating & Forwarding Co., Kingston.	Pratt, John, stm., 70 tons, 96 ft., (1874), Dept. of Public Works, Ottawa.
Petrel, stm., 192 tons, 116 ft., (1892), Minister of Marine & Fisheries, Ottawa.	†Primrose, paddle stm., 189 tons, 140 ft., (1890), Toronto Ferry Co., Ltd.
Petrie, A. M., stm., 20 tons, 50 ft., (1892), Miss Alice M. Petrie, Guelph, Ont.	Primrose, stm., 23 tons, 53 ft., (1899), M. Mc- Innis, Meaford.
Phantom, stm., 56 tons, 55 ft., (1897), C. Lewis, Rat Portage.	Prince Alfred, stm., 20 tons, 60 ft., (1867), S. E. Miller, Gore Bay.
Philadelphia, stm., 148 tons, 90 ft., (1867), Algo- ma Central S. S. Line, Sault Ste. Marie.	Prince Edward Ferry, paddle stm., 18 tons, 50 ft., (1885), Wm. Powles, Deseronto.
Philippe, sail, 154 tons, 108 ft., (1881), M. Bea- ton, Cumberland.	Princess, stm., 8 tons, 26 ft., (1897), J. M. Sher- man and Jno. Gardner, Rat Portage.
Phillips, Harold B., stm., 66 tons, 59 ft., (1880), Great Lakes Towing Co., Ltd., Sarnia.	Princess Louise, stm., 115 tons, 94 ft., (1879), Eden A. Johnson, L'Original.
Phin & Co. Scow No. 1, sail, 81 tons, 77 ft., (1894), Wm. E. Phin, Toronto.	Priscilla, stm., 20 tons, 53 ft., (1897), Priscilla Steam Yacht Co., Ltd., Toronto.
Phin & Co. Scow No. 2, sail, 90 tons, 77 ft., (1894), Wm. E. Phin, Toronto.	Proctor, E. R. C., sail, 163 tons, 109 ft., (1878), J. E. Proctor, Brighton.
Phin & Co. Scow No. 9, sail, 115 tons, 80 ft., (1894), Wm. E. Phin, Toronto.	Protector, stm., 276 tons, 117 ft., (1873), James Reid & Sons, Sarnia.
Phoenix, stm., 29 tons, 50 ft., (1900), Geo. F. Marsh, Huntsville.	Puritan, stm., 6 tons, 41 ft., (1901), Priscilla Steam Yacht Co., Ltd., Toronto.
Pierrepont, paddle stm., 252 tons, 123 ft., (1871), C. F. Pierrepont, Sault Ste. Marie.	

Pilgrim, stm., 262 tons, 122 ft., (1884), H. S. Folger, Kingston.
 Pilgrim, Kate, stm., 11 tons, 47 ft., (1875), David Davidson, Penetanguishene.
 Pilot, sail, 34 tons, 63 ft., (1866), James A. Mahoney, Kingston.
 Pilot, stm., 70 tons, 71 ft., (1901), Mrs. Carrie E. Pratt, Parry Sound.
 Pioneer, stm., 11 tons, 34 ft., (1879), E. A. Morris, Magnetawan.
 Pioneer, stm., 28 tons, 49 ft., (1879), H. C. Rothwell, Kingston.
 Piper, sail, 17 tons, 51 ft., (1892), Edward W. Brydges, Rat Portage.
 Pittsburg, paddle stm., 1349 tons, 221 ft., (1871), Georgian Bay Nav. Co., Ltd., Toronto.
 Plante, Julie, sail, 62 tons, 64 ft., (1902), Mackenzie & Mann, Toronto.
 Playfair, James, stm., 26 tons, 50 ft., (1894), H. McInnes, Meaford.
 Plummer, J. H., stm., 1582 tons, 246 ft., Canadian Lake & Ocean Nav. Co., Toronto.
 Plunkett, Wilfred, sail, 100 tons, 78 ft., (1866), Geo. Plunkett, Cobourg.
 Pocahontas, paddle stm., 32 tons, 36 ft., (1885), Muskoka Mill & Lumber Co., Toronto.
 Pomonona, stm., 5 tons, 42 ft., (1877), V. H. Moore, M. D., Brockville.
 Pontiac, paddle stm., 116 tons, 86 ft., (1901), H. F. McLachlin and Claude McLachlin, Arnprior.
 Pontiac, sail, 135 tons, 82 ft., (1890), W. J. Poupore, Ottawa.
 Pontiac, sail, 33 tons, 54 ft., (1889), W. J. Poupore, Ottawa.

Quebec, stm., 108 tons, 110 ft., (1867), H. F. Cummings, Cornwall.
 #Quebec, sail, 989 tons, 206 ft., (1901), Montreal Trans. Co., Montreal.
 #Quebec, paddle stm., 2656 tons, 282 ft., (1865), Richelieu & Ont. Nav. Co., Montreal.
 Queen, stm., 32 tons, 49 ft., (1883), The Ont. & Western Lumber Co., Ltd., Rat Portage.
 Queen, stm., 15 tons, 50 ft., (1899), R. Farries, et al., North Bay.
 Queen, stm., 7 tons, 35 ft., (1883), Thos. Ellis, Roach's Point.
 Queen of the Isles, 40 tons, 72 ft., (1885), Muskoka Leather Co., Ltd., Toronto.
 Queen of the Lakes, sail, 190 tons, 128 ft., (1853), Geo. A. Richardson, Kingston.
 Queen of the North, sail, 347 tons, 125 ft., (1861), Henry M. Jackman, Toronto.
 Quinby, I. L., sail, 77 tons, 84 ft., (1863), P. McGraw, et al., Kincardine.
 Quinlan, Eliza, sail, 131 tons, 97 ft., (1870), A. Campbell, Milford.
 Quinze, stm., 32 tons, 53 ft., (1891), F. W. Avery, Ottawa.
 Rainbow, stm., 51 tons, 71 ft., (1898), Francis Burnett, Birdsal.
 Rambler, stm., 26 tons, 46 ft., (1896), J. S. Whiting, et al., Rat Portage.
 Rambler, stm., 6 tons, 30 ft., (1891), Geo. A. McLaurin, Savanne.
 Rambler, paddle stm., 9 tons, 38 ft., (1901), Alex. Cullon, Lindsay.
 Rambler, stm., 6 tons, 48 ft., (1898), Waterhouse Engine Co., Ltd., Brantford.

Muskoka, stm., 197 tons, 94 ft., (1881), The Muskoka & Nipissing Nav. Co., Gravenhurst.	Niska, stm., 9 tons, 36 ft., (1897), Robt. J. Stroud, Milford Bay.
Muskoka, paddle stmtr., 22 tons, 35 ft., (—), Gilmour & Co., Trenton.	No. 1, sail, 57 tons, 64 ft., (1895), H. F. Cumming and J. B. McMillan, Cornwall.
Muskoka, sail, 481 tons, 149 ft., (1872-1896), Collins Bay Rating & Forwarding Co., Ltd., Kingston.	No. 1, sail, 74 tons, 91 ft., (1895), W. C. Edwards & Co., Ltd., Rockland.
*Myles, stm., 1199 tons, 175 ft., (1882), Myles Transportation Co., Ltd., Hamilton.	No. 1, sail, 14 tons, 37 ft., (1893), H. F. McLachlin and Claude McLachlin, Arnprior.
Myra, stm., 73 tons, 82 ft., (1884), James Buckley, Prescott.	No. 1, sail, 31 tons, 50 ft., (1894), Peter Whelan, Ottawa.
Myrtle, stm., 9 tons, 39 ft., (1880), David Ward, Toronto.	No. 2, sail, 31 tons, 49 ft., (1893), H. F. McLachlin and Claude McLachlin, Arnprior.
Myrtle, stm., 5 tons, 33 ft., (1901), Herbert Watt, Peterborough.	No. 2, sail, 24 tons, 40 ft., (1895), Peter Whelan, Ottawa.
Naiad, stm., 7 tons, 41 ft., (1890), T. G. Brigham, Ottawa.	No. 2, sail, 74 tons, 91 ft., (1895), W. C. Edwards & Co., Ltd., Rockland.
Naiad, sail, 31½ tons, 140 ft., (1863), ———	No. 5, sail, 7 tons, 34 ft., (1898), Hugh Fleming, Cornwall.
Naiad, stm., 29 tons, 68 ft., (1890), H. S. Sanford, Hamilton.	No. 31, sail, 17 tons, 40 ft., (1898), E. G. Laverdure, Ottawa.
Naiad, stm., 15 tons, 51 ft., (1888), W. H. Montray, Amherst Island.	No. 33, sail, 17 tons, 40 ft., (1898), E. G. Laverdure, Ottawa.
Nacomi, sail, 196 tons, 122 ft., (1886), Ottawa Transportation Co., Ltd., Ottawa.	No. 34, sail, 91 tons, 91 ft., (1870), David Gilmour, Trenton.
Nautilus, stm., 9 tons, 31 ft., (1889), Frank Freeman, Port Dalhousie.	No. 36, sail, 91 tons, 92 ft., (1870), David Gilmour, Trenton.
Ned, sail, 152 tons, 109 ft., (1881), Ottawa Transportation Co., Ltd., Ottawa.	No. 37, sail, 89 tons, 91 ft., (1870), David Gilmour, Trenton.
Neelon, Harvey stm., 65 tons, 74 ft., (1876), M. Lemoux, Midland.	No. 1, Calumet, sail, 32 tons, 51 ft., (1898), Upper Ottawa Improvement Co., Ottawa.
Neelon, Sylvester, 291 tons, 137 ft., (1875), Collins Bay Rating & Forwarding Co., Kingston, Ont.	No. 2, Calumet, sail, 32 tons, 51 ft., (1898), Upper Ottawa Improvement Co., Ottawa.
	No. 5, Deep River, sail, 28 tons, 52 ft., (1899), Upper Ottawa Improvement Co., Ottawa.

Smith's Falls.
 Nellie, stm., 2 tons, 25 ft., (1886), R. Campbell, Bracebridge.
 Nellie S., stm., 3 tons, 20 ft., (1885), Geo. Sutherland, Essex Centre.
 Nellie T., stm., 5 tons, 36 ft., (1894), Michael Dovey, Lindsay.
 Nemesis, sail, 82 tons, 73 ft., (1868), J. H. Spence, Southampton.
 Neva, sail, 148 tons, 110 ft., (1881), Ottawa Transportation Co., Ltd., Ottawa.
 Neville, sail, 158 tons, 112 ft., (1886), Ottawa Transportation Co., Ltd., Ottawa.
 New Dominion, sail, 196 tons, 117 ft., (1868), Geo. H. Morden, Oakville.
 New Ontario, sail, 17 tons, 50 ft., (1898), James Whalen, Port Arthur.
 Newsboy, sail, 40 tons, 67 ft., (1885), Lemuel Dorland, Bronte.
 Niagara, stm., 396 tons, 159 ft., (1856-1901), A. W. Hepburn, Picton.
 Nile, stm., 96 tons, 90 ft., (1870), Deseronto Nav. Co., Deseronto.
 Nile, sail, 151 tons, 74 ft., (1881), Ottawa Transportation Co., Ltd., Ottawa.
 Nilika, stm., 1 ton, 24 ft., (1897), John Jamieson, et al., Ottawa.
 Nina, stm., 11 tons, 32 ft., (1889), J. Cooper, Chatham.
 Nipissongis, paddle stm., 7 tons, 45 ft., (1894), The Ont. & Western Lumber Co., Rat Portage.
 Nipissongis, paddle stm., 275 tons, 125 ft., (1887), Muskoka & Nipissing Nav. Co., Gravenhurst.

Upper Ottawa Improvement Co., Ottawa.
 No. 1, Quyon, sail, 32 tons, 51 ft., (1898), Upper Ottawa Improvement Co., Ottawa.
 No. 2, Quyon, sail, 32 tons, 51 ft., (1898), Upper Ottawa Improvement Co., Ottawa.
 Nobby, stm., 2 tons, 25 ft., (1888), Thos. Robson, Fenelon Falls.
 Nocross, stm., 20 tons, 45 ft., (1887), The French River Boom Co., Toronto.
 Nogey, sail, 68 tons, 69 ft., (1898), Robt. Kennedy, Lindsay.
 Nokomis, stm., 25 tons, 55 ft., (1887), W. C. Edwards, Rockland.
 Nora, stm., 20 tons, 44 ft., (1895), D. L. Mather, Rat Portage.
 Norah, sail, 30 tons, 53 ft., (1880), R. C. Smith, Port Hope.
 Nore, sail, 95 tons, 91 ft., (1866), F. LaRiviere, Plantagenet.
 North King, paddle stm., 573 tons, 155 ft., (1868-1891), Lake Ont. & Bay of Quinte Sibt. Co., Kingston.
 North River, paddle stm., 393 tons, 50 ft., (1890), H. F. MacLachlin and Claude MacLachlin, Arnprior.
 North Star, stm., 40 tons, 81 ft., (1895), W. C. Harris, Gore's Landing.
 North West, sail, 57 tons, 75 ft., (1889), Edmund Goldring and Francis Goldring, Whidby.
 Northern Light, stm., 393 tons, 133 ft., (1876), Minister of Marine & Fisheries, Ottawa.
 Norway, sail, 332 tons, 135 ft., (1873-1884), M. Mahoney, Hamilton.
 Noshonong, stm., 25 tons, 56 ft., (1880), J. R. Booth, Ottawa.

Notter, G. H., stm., 14 tons, 42 ft., (1881), Ottawa Transportation Co., Ltd., Ottawa.	Orion, stm., 846 tons, 173 ft., (1872), Collin's Bay Rafting & Forwarding Co., Kingston.
Novelty, paddle stm., 65 tons, 80 ft., (1861), Mossum Boyd, Bobcaygeon.	Oscor, sail, 122 tons, 96 ft., (1888), Hiram Easton, Merrickville.
Nymoca, stm., 25 tons, 52 ft., (1896), G. F. Beau- mont, Muskoka.	Osirius, sail, 106 tons, 109 ft., (1892), P. Larkin, St. Catharines, and A. Sangster, Iroquois.
Nymph, stm., 29 tons, 75 ft., (1902), Robt. J. Stroud, Milford Bay.	Osprey, stm., 6 tons, 32 ft., (1895), Dan Lang, Aldborough.
O'Brien, J. V., stm., 59 tons, 70 ft., (1888—re- built 1892), Wm. E. Bigwood, Byng Inlet.	Osprey, stm., 42 tons, 72 ft., (1902), James Pur- vis, Gore Bay.
Ocean, stm., 684 tons, 137 ft., (1872), Went- worth Nav. Co., Toronto.	Ossifrage, stm., 632 tons, 161 ft., (1886), Algoma Central S. S. Line, Sault Ste. Marie.
Ocean Lily, stm., 3 tons, 29 ft., (1887), Edward Brooks, Red Bay.	Oso, stm., 6 tons, 41 ft., (1902), John H. Wil- mott, Beaumaris.
Odessa, stm., 12 tons, 32 ft., (1894), A. L. Nick- erson, Midland.	Oswell, J. N., sail, 112 tons, 105 ft., (1875), Richard Waters, Belleville.
Ogema, paddle stm., 72 tons, 85 ft., (1889), Trent Valley Nav. Co., Bobcaygeon.	Otanbee, sail, 47 tons, 69 ft., (1900), R. B. Rogers, Peterborough.
Ojibawaya, stm., 1 ton, 16 ft., (1902), Mrs. F. A. Price, Missanaga.	Otonabee, sail, 80 tons, 87 ft., (1872), Thos. Mof- fat, Perth.
Oldfield, W. S., stm., 15 tons, 42 ft., (1898), W. H. Oldfield, Parry Sound.	Ottawa, stm., 158 tons, 116 ft., (1892), The Min- ister of Marine & Fisheries, Ottawa.
Olga, stm., 5 tons, 33 ft., (1896), John McLaren, Brockville.	Ottawa, stm., 21 tons, 56 ft., (1888), Minister of Public Works, Ottawa.
Olive, stm., 151 tons, 95 ft., (1875), The Ottawa Forwarding Co., Ltd., Ottawa.	Ottawa, stm., 1 ton, 26 ft., (1887), H. F. Mc- Lachlin and Claude McLachlin, Arnprior.
Olive, stm., 2 tons, 25 ft., (1895), G. W. Leach, et al., North Bay.	†Ottawa, stm., 2431 tons, 256 ft., (1900), Canada- Atlantic Trans. Co., Ottawa.
Olive Branch, sail, 16 tons, 51 ft., (1875), Mrs. Charlotte Reid, Township of Toronto.	Ottawa, sail, 130 tons, 76 ft., (1889), W. H. Davis, Ottawa.
Olymnia, sail, 23 tons, 57 ft., (1879), Jos.	Ottawa, str., 610 tons, 151 ft., (1861), Reid Wrecking Co., Sarnia.
	Otter, paddle stm., 21 tons, 48 ft., (1895), Alex.

Fraser, Cockburn.
 Onananche, stm., 1 ton, 23 ft., (1896), E. A. Parsons, et al., Ottawa.
 One, sail, 17 tons, 56 ft., (1895), Rainy River Nav. Co., Ltd., Rat Portage.
 Ongiara, 98 tons, 90 ft., (1885), The Niagara Nav. Co., Ltd., Toronto.
 Onondaga, sail, 320 tons, 135 ft., (1870), Geo. Hall Coal Co., Ogdensburg, N. Y.
 Ontario, sail, 150 tons, 105 ft., (1867), Francis Gravelle, Southampton.
 Ontario, sail, 56 tons, 56 ft., (1868), J. Swift, Kingston.
 Ontario, stm., 11 tons, 43 ft., (1881), R. Walker, Township of Wood.
 Ontario, stm., 41 tons, 63 ft., (1870), J. W. Steinhoff, Wallaceburg.
 Ontario, paddle stm., 80 tons, 58 ft., (1868), J. Thurston, Lindsay.
 †Ontario, stm., 16½ tons, (1890), Canadian Pacific Ry. Co., Montreal.
 Onward, stm., 22 tons, 57 ft., (1902), John McGaw, Kincardine.
 Opbir, stm., 11 tons, 41 ft., (1902), Milton Pearce, Parry Sound.
 Orcadia, stm., 23 tons, 54 ft., (1888), John Morrison, Port Coldwell.
 Orcadia, stm., 26 tons, 52 ft., (1894), J. Playfair, Midland.
 Oriana, stm., 3 tons, 29 ft., (1899), James Glass, Little Britain.
 Orpole, stm., 75 tons, 75 ft., (1886), Muskoka & Nipissing Nav. Co., Gravenhurst.
 Orpole, sail, 50 tons, 85 ft., (1886), Geo. Gooderham, Toronto.

mons.
 Owl (The), stm., 4 tons, 32 ft., (1887), L. J. Courtie, Courtie.
 Ox, sail, 130 tons, 104 ft., (1873), Alex. Gunn, Kingston.
 †Paliki, stm., 1598 tons, 240 ft., (1889), Algoma Central S. S. Line, Sault Ste. Marie.
 Paloma, sail, 122 tons, 99 ft., (1885), Trent Valley Nav. Co., Ltd., Bobcaygeon.
 Parsons, Minnie F., stm., 46 tons, 59 ft., (1868), F. B. Hackett, Amherstburg.
 Parthenon, sail, 56 tons, 62 ft., (1877), Robt. McDonald, Hallowell.
 Parthia, paddle stm., 198 tons, 126 ft., (1896), The Calvin Co., Ltd., Garden Island.
 Pastime, stm., 15 tons, 42 ft., (1901), J. A. McCrossen, Rat Portage.
 Pattee, G. B., stm., 30 tons, 61 ft., (1882), Upper Ottawa Improvement Co., Ottawa.
 Pattee, G. B., sail, 157 tons, 107 ft., (1878), Ottawa Transportation Co., Ltd., Ottawa.
 Paul, N., sail, 126 tons, 100 ft., (1890), Wm. J. Poupore, Morrisburg.
 Pearl, stm., 6 tons, 35 ft., (1902), Robt. G. Aird, Parry Sound.
 Pearl, stm., 6 tons, 35 ft., (1899), James Lewis, Bobcaygeon.
 Pearl, stm., 8 tons, 30 ft., (1885), H. Calcutt, Peterborough.
 Pellatt, H. M., stm., 1591 tons, 240 ft., Canadian Lake & Ocean Nav. Co., Toronto.
 Pembroke, paddle stm., 194 tons, 104 ft., (1895), The Upper Ottawa Improvement Co., Ottawa.
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Penetang, stm., 100 tons, 82 ft., (1901), First Brook Box Co., Ltd., Toronto.	Port Elgin Queen, stm., 37 tons, 52 ft., (1886), David Porter, Wiaraton.
Perew, Frank, 43 tons, 72 ft., (1867), Minister of Railways and Canals, Ottawa.	Porter, Lloyd S., 489 tons, 159 ft., (1898), Arthur W. Hepburn, Picton.
Perley, W. G., sail, 164 tons, 107 ft., (1878), Ottawa Trans. Co., Ltd., Ottawa.	Portsmouth, sail, 183 tons, 108 ft., (1872-1882), S. T. Easton, Ottawa.
Persia, stm., 757 tons, 144 ft., (1873), Toronto & Montreal Sbt. Co., Ltd., Toronto.	Poupore, W. J., stm., 47 tons, 70 ft., (1881), W. J. Poupore, Morrisburg.
Peruvian, sail, 54 tons, 97 ft., (1888), J. Shappie, Belleville.	Powell, C. B., paddle stm., 272 tons, 139 ft., (1887), Upper Ottawa Improvement Co., Ottawa.
Petrel, stm., 346 tons, 129 ft., (1892), Collin's Bay Rafting & Forwarding Co., Kingston.	Pratt, John, stm., 70 tons, 96 ft., (1874), Dept. of Public Works, Ottawa.
Petrel, stm., 192 tons, 116 ft., (1892), Minister of Marine & Fisheries, Ottawa.	†Primrose, paddle stm., 189 tons, 140 ft., (1890), Toronto Ferry Co., Ltd.
Petrie, A. M., stm., 20 tons, 50 ft., (1892), Miss Alice M. Petrie, Guelph, Ont.	Primrose, stm., 23 tons, 53 ft., (1869), M. Mc- Innis, Meaford.
Phantom, stm., 56 tons, 55 ft., (1897), C. Lewis, Rat Portage.	Prince Alfred, stm., 20 tons, 60 ft., (1867), S. E. Miller, Gore Bay.
Philadelphia, stm., 148 tons, 90 ft., (1867), Algo- ma Central S. S. Line, Sault Ste. Marie.	Prince Edward Ferry, paddle stm., 18 tons, 50 ft., (1885), Wm. Powles, Deseronto.
Philippe, sail, 154 tons, 108 ft., (1881), M. Bea- ton, Cumberland.	Princess, stm., 8 tons, 26 ft., (1897), J. M. Sher- man and Jno. Gardner, Rat Portage.
Phillips, Harold B., stm., 66 tons, 59 ft., (1880), Great Lakes Towing Co., Ltd., Sarnia.	Princess Louise, stm., 115 tons, 94 ft., (1879), Eden A. Johnson, L'Original.
Phin & Co. Scow No. 1, sail, 81 tons, 77 ft., (1894), Wm. E. Phin, Toronto.	Priscilla, stm., 20 tons, 53 ft., (1897), Priscilla Steam Yacht Co., Ltd., Toronto.
Phin & Co. Scow No. 2, sail, 90 tons, 77 ft., (1894), Wm. E. Phin, Toronto.	Proctor, E. R. C., sail, 163 tons, 109 ft., (1878), J. E. Proctor, Brighton.
Phin & Co. Scow No. 3, sail, 115 tons, 80 ft., (1894), Wm. E. Phin, Toronto.	Protector, stm., 276 tons, 117 ft., (1873), James Reid & Sons, Sarnia.
Phoenix, stm., 29 tons, 50 ft., (1900), Geo. F. Marsh, Huntsville	Puritan, stm., 6 tons, 41 ft., (1901), Priscilla

Folger, Kingston.

Pilgrim, Kate, stm., 11 tons, 47 ft., (1875),
David Davidson, Penetanguishene.
Pilot sail, 34 tons, 63 ft., (1866), James
Mahoney, Kingston.
Pilot, stm., 70 tons, 71 ft., (1901), Mrs. Carrie
E. Pratt, Parry Sound.
Pioneer, stm., 11 tons, 34 ft., (1879), E. A. Mor-
ris, Magnetawan.
Pioneer, stm., 28 tons, 49 ft., (1879), H. C.
Rothwell, Kingston.
Piper, sail, 17 tons, 51 ft., (1892), Edward W.
Brydges, Rat Portage.
Pittsburg, paddle stm., 1349 tons, 221 ft., (1871).
Georgian Bay Nav. Co. Ltd., Toronto.
Plante, Julie, sail, 62 tons, 64 ft., (1902), Mac-
kenzie & Mann, Toronto.
Playfair, James, stm., 26 tons, 50 ft., (1894), H.
McInnes, Meaford.
Plummer, J. H., stm., 1382 tons, 246 ft., Can-
adian Lake & Ocean Nav. Co., Toronto.
Plunkett, Wilfred, sail, 100 tons, 78 ft., (1866).
Geo. Plunkett, Cobourg.
Pocahontas, paddle stm., 32 tons, 36 ft., (1885),
Muskoka Mill & Lumber Co., Toronto.
Pomona, stm., 5 tons, 42 ft., (1877), V. H.
Moore, M. D., Brockville.
Pontiac, paddle stm., 116 tons, 86 ft., (1901),
H. F. McLachlin and Claude McLachlin,
Arnprior.
Pontiac, sail, 135 tons, 82 ft., (1890), W. J. Pou-
pore, Ottawa.
Pontiac, sail, 33 tons, 54 ft., (1889), W. J. Pou-
pore, Ottawa.

Cumming, Cornwall.

†Quebec, sail, 989 tons, 206 ft., (1901), Montreal
Trans. Co., Montreal.
†Quebec, paddle stm., 2656 tons, 282 ft., (1865),
Richelieu & Ont. Nav. Co., Montreal.
Queen, stm., 32 tons, 49 ft., (1883), The Ont. &
Western Lumber Co. Ltd., Rat Portage.
Queen, stm., 15 tons, 50 ft., (1899), R. Farries,
et al., North Bay.
Queen, stm., 7 tons, 35 ft., (1883), Thos. Ellis,
Roach's Point.
Queen of the Isles, 40 tons, 72 ft., (1885), Mus-
koka Leather Co., Ltd., Toronto.
Queen of the Lakes, sail, 190 tons, 128 ft.,
(1853), Geo. A. Richardson, Kingston.
Queen of the North, sail, 347 tons, 125 ft.,
(1861), Henry M. Jackman, Toronto.
Quinby, I. L., sail, 77 tons, 84 ft., (1863), P.
McGraw, et al., Kincardine.
Quinlan, Eliza, sail, 131 tons, 97 ft., (1870), A.
Campbell, Milford.
Quinze, stm., 32 tons, 53 ft., (1891), F. W.
Avery, Ottawa.
Rainbow, stm., 51 tons, 71 ft., (1898), Francis
Burnett, Birdsall.
Rambler, stm., 26 tons, 46 ft., (1896), J. S. Whit-
ing, et al., Rat Portage.
Rambler, stm., 6 tons, 30 ft., (1891), Geo. A.
McLaurin, Savanne.
Rambler, paddle stm., 9 tons, 38 ft., (1901),
Alex. Cullon, Lindsay.
Rambler, stm., 6 tons, 48 ft., (1898), Waterhouse
Engine Co., Ltd., Brantford.

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✓ CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Ranger, sail, 21 tons, 65 ft., (1877), N. Wilhelmy, Belleville.	Rideau Queen, stmr., 351 tons, 108 ft., (1900), Rideau Lake Nav. Co., Ltd., Kingston.
Ranger, stmr., 8 tons, 44 ft., (1888), Wm. Parker, Sandwich.	Ripple, stmr., 15 tons, 43 ft., (1884), R. E. Moore, Lions Head.
Ranger, stmr., 14 tons, 46 ft., (1888), Deseronto Nav. Co., Deseronto.	Ripple, stmr., 13 tons, 38 ft., (1874), C. Warren, Pembroke.
Ranger, paddle stmr., 53 tons, 74 ft., (1884), Geo. Crandell, Lindsay.	Ripple, stmr., 16 tons, 43 ft., (1878), W. H. Wylie, Carleton Place.
Ramey, Gertrude A., stmr., 14 tons, 42 ft., (1883), Noble Bros., Ltd., Owen Sound.	Ripple, stmr., 5 ton, 32 ft., (1892), Peter Chesterfield, Richard's Landing.
Raoul, sail, 100 tons, 94 ft., (1869), Wm. McCaffrey, Ottawa.	Ripple, stmr., 2 tons, 15 ft., (1902), J. P. Gilhbons, Port Colbourne.
Rapid, sail, 221 tons, 124 ft., (1874), Kingston & Montreal Forwarding Co.,	Ritchie, Bella, paddle stmr., 60 tons, 87 ft., (1895), C. M. Roys, Kingston.
Rapid City, sail, 37 tons, 70 ft., (1884), Chas. Goldring, Whitby.	Rival, paddle stmr., 125 tons, 120 ft., (1873), C. M. Roys, Kingston.
Ray, Lula M., stmr., 33 tons, 56 ft., (1888), James Whalen, Port Arthur.	River Belle, stmr., 14 tons, 40 ft., (1891), Daniel Johnson, Combermere.
Read, C. E., stmr., 13 tons, 42 ft., (1894), W. H. Hurdman, Ottawa.	Rob Roy, stmr., 5 tons, 30 ft., (1899), Edward Muir, Sutton.
Recluse, stmr., 3 tons, 18 ft., (1898), E. H. Bissett, Brockville.	Rob Roy, stmr., 5 tons, 31 ft., (1900), Robt. M. Roy, Peterborough.
Recruit, sail, 297 tons, 144 ft., (1880-1901), Rathbun Co., Deseronto.	Rob Roy, sail, 341 tons, 144 ft., (1897), A. W. Hepburn, Picton.
Red Bird, sail, 30 tons, 64 ft., (1870), H. Mines, Welland.	Robertson, C. E., sail, 28 tons, 52 ft., (1894), A. McKinnon, Rat Portage.
Red Island, sail, 152 tons, 102 ft., (—), Minister of Marine & Fisheries, Ottawa.	Robertson, J., sail, 152 tons, 108 ft., (1898), Ottawa Transportation Co., Ltd., Ottawa.
Reed, Isabel, sail, 480 tons, 186 ft., (1881), Arthur W. Hepburn, Picton.	Rock, stmr., 14 tons, 43 ft., (1883), The Anderson Fish & Trading Co. Ltd., Midland.
Regina, stmr., 7 tons, 32 ft., (1885), J. D. Johnson, Rat Portage.	Rockaway paddle stmr., 7 tons, 36 ft., (1901), T. H. DeCew, Fenelon Falls.
Reginald, stmr., 186 tons, 120 ft., (1894), A. A. Wright, Toronto.	Rocket, sail, 4 tons, 44 ft., (1891), Godfrey Faubert, Cumberland.
Reid, Nellie, stmr., 56 tons, 70 ft., (1886), H. W. Richardson, Kingston.	Rockland, sail, 136 tons, 110 ft., (1881), Ottawa Transportation Co., Ltd., Ottawa.

Rooney, Loretta, sail, 156 tons, 91 ft., (1866),
F. R. Barnhardt, Deseronto.
Rooth, Wm. A., stm., 48 tons, 81 ft., (1871),
Great Lakes Towing Co., Cleveland, O.
Rosamond, stm., 23 tons, 48 ft., (1883), Jas. F.
Canniff, Toronto.
Rose, sail, 80 tons, 71 ft., (1890), Angus Mc-
Kinnon, Rat Portage.
Rosebeller, sail, 37 tons,
Clouthier, Rochester.
†Rosedale, stm., 1507 tons, 246 ft., (1888), St.
Lawrence & Chicago Stm. Nav. Co., Ltd.,
Toronto.
†Rosemount, stm., 1580 tons, 245 ft., (1896), Mon-
treal Trans. Co., Montreal.
Rosina, stm., 2 tons, 29 ft., (—), L. B. How-
land, Brockville.
Ross, Ella, paddle stmtr 325 tons, 99 ft., (1879),
Deseronto Nav. Co., Deseronto.
Ross, Elsi, stm., 0 tons, 34 ft., (1889), David
Gillies, Carleton Place.
Ross Point Ferry Boat, sail, 16 tons, 45 ft.,
(—), A. J. Campbell, Arnprior.
Rosseau, stm., 53 tons, 70 ft., (1880), The
Snider Lumber Co., Ltd., Toronto.
Round Islander sail, 14 tons, 40 ft., (1895),
Henry Bauder, Verona.
Rover, stm., 51 tons, 60 ft., (1887), E. H. Hor-
sey, Ottawa.
Rover, stm., 6 tons, 30 ft., (1893), Blind River
Towing Co., Blind River.
Rover, sail, 74 tons, 96 ft., (1870), R. O'Neil,
Ottawa.
Rover, sail, 13 tons, 42 ft., (1894), John Rowley,
Kingston.
Rover, sail, 46 tons, 75 ft., (1884), Geo. Travis,
Wallaceburg.

Reindeer, stm., 58 tons, 74 ft., (1884), Henrietta
Collier, Fredericksburg.
Reindeer, sail, 14 tons, 44 ft., (1886), Benjamin
B. Lynd, Parkdale.
Reliance, stm., 239 tons, 120 ft., (1881), Deser-
onto Nav. Co., Deseronto.
†Reliance, stm., 311 tons, 124 ft., (1892), Midland
Towing & Wrecking Co., Midland.
Relief, sail, 50 tons, 89 ft., (1875), James
O'Leary and Geo. W. Downs, Port Lamb-
ton.
Rene, sail, 10 tons, 40 ft., (1895), E. G. Laver-
dure, Ottawa.
Rescue, stm., 20 tons, 56 ft., (1878), Richard
Power, Victoria Harbor.
Rescue, stm., 7 tons, 41 ft., (1886), Mrs. Mary
C. McMurchy and A. C. McMurchy, Toronto.
Rescue, stm., 52 tons, 62 ft., (1885), Deseronto
Nav. Co., Deseronto.
Resolute, stm., 372 tons, 136 ft., (1883), Deser-
onto Nav. Co., Deseronto.
Restless, sail, 72 tons, 73 ft., (1859), C. H.
Dodge, Belmont.
Reta, stm., 2 tons, 35 ft., (1902), W. H. Rowatt,
Ottawa.
Reta, stm., 2 tons, 29 ft., (1899), Jos. Brown,
Lindsay.
Rhoda May, stm., 18 tons, 50 ft., (1887), A. P.
Ross, Cornwall.
Richard, C., sail, 172 tons, 112 ft., (1887), Ot-
tawa Trans. Co., Ltd., Ottawa.
Richmond, stm., 14 tons, 39 ft., (1887), Jos.
Brimson, Port Arthur.
Rideau, sail, 137 tons, 70 ft., (1889), Minister of
Railways and Canals, Ottawa.
Rideau King, stm., 266 ton, 107 ft., (1893), The
Rideau Lake Nav. Co., Ltd., Kingston.

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Roy, paddle stmr., 6 tons, 31 ft., (1898), August Gropp, Penetanguishene.	Scott, Walker, stmr., 28 tons, 36 ft., (1876), J. W. Maitland, Owen Sound.
Royal, sail, 63 tons, 48 ft., (1889), Thos. A. Clemence, Toronto.	Scout, stmr., 173 tons, 75 ft., (1900), Minister of Marine and Fisheries, Ottawa.
Ruby, stmr., 2 tons, 23 ft., (1879), Chas. Stewart, Lansdowne.	Scow No. 1, sail, 253 tons, 138 ft., (1901), Rior- dan Paper Mills, Ltd., Merritton.
Ruby, stmr., 72 tons, 70 ft., (1878), John Ellison, Port Stanley.	Scow No. 2, sail, 251 tons, 138 ft., (1901), Rior- dan Paper Mills, Ltd., Merritton.
Ruby, stmr., 7 tons, 32 ft., (1893), H. E. Ford, Norwood.	Scow No. 3, sail, 138 tons, 103 ft., (1901), Rior- dan Paper Mills, Ltd., Merritton.
Rupert, paddle stmr., 512 tons, 147 ft., (1877), W. E. Cornell, Toronto.	Scugog, paddle stmr., 60 tons, 100 ft., (1859), S. Kelly, Bridgenorth.
†Russell, stmr., 76 tons, 79 ft., (1896), W. C. Edwards & Co., Ltd., Rockland.	Sea Bird, sail, 121 tons, 91 ft., (1867), Mary A. Cameron, Picton.
Russell, Frank, sail, 283 tons, 142 ft., (1871), James Playfair and W. A. Clark, Jr., Col- lingwood.	Sea Flower, stmr., 7 tons, 35 ft., (1883), John McL. Stevenson, Barrie.
Ruth, stmr., 36 tons, 59 ft., (1899), John D. Reid, Cardinal.	Sea Gull, stmr., 51 tons, 51 ft., (1862), Henry Ball, Sault Ste. Marie.
Rutherford, E. H., sail, 286 tons, 133 ft., (1881), James Savage, Jr., Hamilton.	Sea Gull, stmr., 9 tons, 32 ft., (1893), D. Moreau, Port Severn.
Saginaw, stmr., 357 tons, 142 ft., (1873), Gt. Lakes Towing Co., Cleveland.	Seaman, A., stmr., 76 tons, 69 ft., (1873), J. V. Crawford, Wiarton, Ont.
Saguenay, paddle stmr., 992 tons, 219 ft., (1891), Richelleu & Ontario Nav. Co., Montreal.	Secret, stmr., 9 tons, 55 ft., (—), J. B. Fair- grieve, Hamilton.
Salty Jack, stmr., 45 tons, 56 ft., (1874), Lake Superior Tug Co., Ltd., Port Arthur.	†Seguin, stmr., 818 tons, 207 ft., (1890), W. H. Smith, Toronto.
Salvor, stmr., 116 tons, 105 ft., (1898), James Reid & Sons, Sarnia.	Selkirk, sail, 719 tons, 183 ft., (1894), Montreal Trans. Co., Montreal.
Samson, paddle stmr., 129 tons, 98 ft., (1876), Franklin Crandell, Lindsay.	Sensation, stmr., 15 tons, 37 ft., (1873), The Min- ister of Public Works, Ottawa.
Samson, paddle stmr., 15 tons, 41 ft., (1893), The Upper Ottawa Improvement Co., Ottawa.	Sephic, sail, 261 tons, 136 ft., (1889), Ontario Lumber Co., Ltd., Toronto.
Samson, stmr., 121 tons, 101 ft., (1862), Kingston & Montreal Forwarding Co., Kingston.	Seyern, stmr., 44 tons, 63 ft., (1883), Victoria Harbour Lumber Co., Victoria Harbor.
	Sewell, Harry, stmr., 25 tons, 52 ft., (1875), James O'Leary and Geo. W. Downs, Port Lambton.

Port Dalhousie.
 Sandford, stm., 56 tons, 72 ft., (1897), Geo. Ross,
 Port Robinson.
 Sandy, stm., 30 tons, 61 ft., (1887), Hugh F.
 Cumming, Cornwall.
 Sandy, sail, 28 tons, 52 ft., (1886), Oscar Mat-
 thews, Hamilton.
 Sarah, sail, 65 tons, 73 ft., (1882), C. Graham,
 Kincardine.
 Sarah Jane, sail, 298 tons, 131 ft., (1872), J. S.
 Nesbitt, Sarnia.
 Sarama, stm., 2 tons, 25 ft., (1886), Henry S.
 Osler, Toronto.
 Sarnia, stm., 85 tons, 66 ft., (1901), Ellen Reid,
 Sarnia.
 Saucy Jack, sail, 68 tons, 72 ft., (1864), J. H.
 McDonald, Toronto.
 Saucy Jim, stm., 93 tons, 84 ft., (1887), Frank
 Scott, Collingwood.
 Sawyer, Edgar P., stm., 52 tons, 49 ft., (1886),
 W. J. McMenemy, Bruce Mines.
 Scagel, Willie, stm., 22 tons, 37 ft., (1888), J.
 Tefer, Jr., Blenheim.
 Scintilla, stm., 4 tons, 27 ft., (1894), Wm. W.
 Sparks, Township of Pickering.
 Scotch Lassie, stm., 2 tons, 25 ft., (1894), Jas. C.
 Applebe, Lindsay.
 Scotch Thistle, stm., 17 tons, 48 ft., (1893), C.
 Anderson, Little Current.
 Scotia, stm., 13 tons, 44 ft., (1875), W. H. Mc-
 Evoy, Amherstburg.
 Scotia, stm., 1461 tons, 254 ft., (1900), Minister
 of Railways and Canals, Ottawa.
 Scotland, sail, 343 tons, 148 ft., (1863), James
 Buckley, Prescott.

N. H. Wright, Cutler.
 Shamrock, 80 tons, 71 ft., (1890), Clifford Lewis,
 Kewatin.
 Shamrock, stm., 297 tons, 117 ft., (1898), Min-
 ister of Marine and Fisheries, Ottawa.
 Shamrock, stm., 14 tons, 38 ft., (1897), John J.
 Roussin, Port Maitaise.
 Shamrock, paddle stm., 154 tons, 103 ft., (1886),
 The Toronto Ferry Co., Ltd., Toronto.
 Shanly, stm., 40 tons, 60 ft., (1890), The Minis-
 ter of Railways and Canals, Ottawa.
 Shawanga, stm., 96 tons, 80 ft., (1882), C. Beck,
 Penetanguishene.
 Shepherd Roy, sail, 62 tons, 83 ft., (1898), T. H.
 Kirby, Ottawa.
 Shickluna, Lewis, stm., 16 tons, 45 ft., (1878),
 James Murray, St. Catharines.
 Shoofy, stm., 10 tons, 35 ft., (1893), J. A. Stillar,
 Callender.
 Shoo Fly, stm., 25 tons, 41 ft., (1870), S. T.
 Reeves, Windsor.
 Sieman, Anna, stm., 19 tons, 41 ft., (1901), Fred-
 erick Burrow, Wiarton.
 Siesta, stm., 99 tons, 98 ft., (1882), Algoma Cen-
 tral S. S. Line, Sault Ste. Marie.
 Siesta, stm., 3 tons, 31 ft., (1888), Peter Camp-
 bell, Beaverton.
 Signal, stm., 94 tons, 82 ft., (1896), Wm. White,
 Midland.
 Silver Wing, stm., 3 tons, 26 ft., (1890), H. F.
 Hodson, Toronto.
 Simia, stm., (1903), Calvin Co., Garden Island.
 Simla, stm., 1490 tons, 250 ft., (1903), Calvin
 Co., Kingston, Ont.

Singapore, sail, 186 tons, 106 ft., (1878), J. C. Sutherland, Goderich.	St. George, paddle stmr., 17 tons, 37 ft., (1893), Geo. H. Perley, Ottawa.
Siren, sail, 307 tons, 137 ft., (1874), Kingston & Montreal Forwarding Co., Ltd., Kingston.	St. Joe, stmr., 118 tons, 70 ft., (1902), Jos. Ser- vais, Port Arthur.
Sir Hector, stmr., 40 tons, 71 ft., (1891), Ottawa Transportation Co., Ltd., Ottawa.	St. Joseph, sail, 14 tons, 50 ft., (1880), A. Bruly, Chatham.
Sir Hector, sail, 183 tons, 106 ft., (1883), W. J. Poupore, Ottawa.	St. Julian, stmr., 20 tons, 48 ft., (1884), J. H. Davis, Gananoque.
Sir Wilfrid, sail, 315 tons, 96 ft., (1902), Polson Iron Works, Toronto.	St. Lawrence, stmr., 467 tons, 169 ft., (1875), Minister of Public Works, Ottawa.
Siskiwit, stmr., 47 tons, 68 ft., (1887), Alfred K. Keefer, Port Arthur.	St. Lawrence, sail, 125 tons, 90 ft., (1890), W. H. Davis, Ottawa.
Sixsmith, W. H., sail, 147 tons, 112 ft., (1887), Ottawa Trans. Co., Ltd., Ottawa.	St. Louis, sail, 334 tons, 127 ft., (1877), D. Syl- vester, Toronto.
Skylark, stmr., 43 tons, 105 ft., (1874), Hon. Clifford Sifton, Ottawa.	St. Paul, stmr., 45 tons, 65 ft., (1875), The De- partment of Public Works, Ottawa.
Sligo, sail, 284 tons, 137 ft., (1874), W. J. Pull- ing, Windsor.	Staats, Elizabeth, sail, 124 tons, 95 ft., (1878), Chas. S. Carter, Port Colbourne.
Smith, A. D., sail, 14 tons, 32 ft., (1895), D. Johnson, Combermere.	Stanley, stmr., 914 tons, 201 ft., (1888), The Min- ister of Marine and Fisheries, Ottawa.
Smith, Lillie, stmr., 275 tons, 130 ft., (1888), Geo. E. Smith, Southampton.	Stanley, paddle stmr., 7 tons, 36 ft., (1901), John A. Ellis, Fenelon Falls.
Smith, R. A., sail, 11 tons, 40 ft., (1879), Horace Bartlett, Sarnia.	Stanley, stmr., 2 tons, 16 ft., (1902), John H. Stanley, Port Colbourne.
Smith, W. J., stmr., 26 tons, 54 ft., (1902), W. J. Smith, Richards Landing.	Stanley, H. M., sail, 305 tons, 132 ft., (1873), Morden Transit Co., Ltd., Midland.
Smyth, Henry, stmr., 40 tons, 69 ft., (1877), C. W. Gauthier, Sandwich.	Starited Fawn, stmr., 25 tons, 60 ft., (1890), Mrs. Eva Preston, et al, Toronto.
Snow Ball, sail, 23 tons, 60 ft., (1881), A. Mor- rison, Tilbury East.	Stella, stmr., 9 tons, 24 ft., (1879), A. Tate and Jas. G. Tate, Penetanguishene.
Snow Bird, sail, 82 tons, 77 ft., (1863), Mary Quinn and Patrick Cassidy, Toronto.	Stella, stmr., 16 tons, 44 ft., (1892), John La- Pointe, Spanish River.
Snowstorm, stmr., 17 tons, 53 ft., (1891), Jos. Goodwin, Toronto.	Stella, sail, 5 tons, 30 ft., (1892), R. W. Eyre and A. B. Holcroft, Toronto.
Soncie, stmr., 14 tons, 46 ft., (1900), J. B. Tud- hope, Orillia.	Stewart, Archie, stmr., 80 tons, 81 ft., (1890), Ottawa Transportation Co., Ltd., Ottawa.

Sorel, paddle stmr., 158 tons, 108 ft., (1871), Richelieu & Ontario Nav. Co., Montreal.
 Southern Belle, stmr., 428 tons, 191 ft., (1861), David S. Keith, Toronto.
 Southwood, stmr., 19 tons, 67 ft., (1884), D. W. Alexander, Toronto.
 Sovereign, sail, 53 tons, 83 ft., (1876), James Mullens, Belleville.
 Span h Ranger, paddle stmr., 11 tons, 36 ft., (1893), R. Booth and P. Shannon, Pembroke.
 Sparrow, stmr., 38 tons, 56 ft., (1882), John B. Smith, et al., Toronto.
 Sparrow, stmr., 91 ft., (1870), Kingston & Montreal Forwarding Co., Kingston.
 Spartan, stmr., 2 tons, 28 ft., (1887), Edwin B. Andros, Barrie.
 †Spartan, paddle stmr., 946 tons, 179 ft., (1865), (1893), Richelieu & Ontario Nav. Co., Montreal.
 Sport, stmr., 16 tons, 36 ft., (1897), A. Robertson, Rat Portage.
 Spray, stmr., 47 tons, 74 ft., (1888), James Mahafferty, Port Albert.
 Spray, stmr., 42 tons, 60 ft., (1874), D. B. McDonell, Cambridge.
 Spray, stmr., 9 tons, 32 ft., (1897), W. A. Coates, Rat Portage.
 Spray, stmr., 15 tons, 42 ft., (1888), John McRae, Meaford.
 Squaw, stmr., 22 tons, 60 ft., (1891), John W. Short, Rat Portage.
 St. Clair, sail, 101 tons, 82 ft., (1875), Peter St. Haggbloom, Port Burwell.
 St. Clair Flat, stmr., 17 tons, 41 ft., (1867), David Foster, Port Burwell.
 St. Francis, stmr., 56 tons, 80 ft., (1875), The Department of Public Works, Ottawa.

Stiletto, stmr., 14 tons, 36 ft., (1897), F. S. Grise, Midland.
 Stone, Walter H., stmr., 35 tons, 64 ft., (1897), Albert Henning, Pelee Island.
 Storey, James, stmr., 49 tons, 63 ft., (1888), J. Perks, Meaford.
 Stranger, stmr., 65 tons, 74 ft., (1872-1901), R. Larmour, Cornwall.
 †Stranger, paddle stmr., 28 tons, 60 ft., (1880), F. Crandell, Lindsay.
 †Strathcona, stmr., 1465 tons, (1900), R. O. and A. B. McKay, Hamilton.
 Strong, W. J. stmr., 41 tons, 58 ft., (1900), W. J. Strong, et al., Southampton.
 Stuart, Jessie, sail, 54 tons, 64 ft., (1870), J. Adamson, Toronto.
 Suffell, W. J., sail, 238 tons, 120 ft., (1874), J. Corson.
 Sultana, sail, 32 tons, 65 ft., (1889), Ontario & Western Lumber Co., Ltd., Rat Portage.
 Sunbeam, stmr., 4 tons, 31 ft., (1884), John Rogers, Medora, Muskoka.
 Sunbeam, stmr., 13 tons, 29 ft., (1886), Frederick Burnett, Birdsall.
 Superior, stmr., 89 tons, 90 ft., (1881), Jos. Ganley, Port Elgin.
 Surprise, stmr., 19 tons, 49 ft., (1893), W. W. Holden, Gore Bay.
 Sutton Belle, stmr., 6 tons, 31 ft., (1880), Chas. Goodyear, Sutton.
 Swan, stmr., 2 tons, 48 ft., (1892), W. J. Chapman, Perth.
 Swan, stmr., 12 tons, 41 ft., (1894), Minister of Marine and Fisheries, Ottawa.
 Swan, stmr., 14 tons, 53 ft., (1895), H. Swan, Port Burwell.

CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

wan, 8 tons, 36 ft., (1899), J. A. Jamieson, Port Arthur.	Thurso, sail, 153 tons, 105 ft., (1887), Ottawa Trans. Co., Ltd., Ottawa.
Swann, Geo., stm., 18 tons, 48 ft., (1894), Thos. McGaw, Kincardine.	Tit Willow, stm., 17 tons, 49 ft., (1891), J. D. Deacon and E. A. Dunlop, Pembroke.
Sweet Mary, stm., 13 tons, 40 ft., (1889), Charles Martin, Port Severn.	Todman, H. N., sail, 110 tons, 92 ft., (1867), Wm. Stone Rice, Puce.
Swift, stm., 4 tons, 27 ft., (1892), N. A. Foubert and G. F. Foubert, Cumberland.	Toms, Fred, sail, 161 tons, 110 ft., (1881), T. H. Kirby, and C. W. Bangs, Ottawa.
Sylvester, stm., 27 tons, 45 ft., (1895), W. S. Shaw, Bracebridge.	Topsy, stm., 9 tons, 36 ft., (1896), John La Course, Penetanguishene.
Tadenac, stm., 9 tons, 40 ft., (—), Tadenac Club, Ltd., Toronto.	Topsy, sail, 22 tons, 46 ft., (1866), Mrs. Sarah M. Carman, Iroquois.
Ta-Kit-Esy, stm., 5 tons, 43 ft., (1899), W. J. Poupore, Morrisburg.	†Toronto, paddle stm., 2779 tons, 269 ft., (1899), Richelieu & Ont. Nav. Co., Montreal.
Tay, sail, 154 tons, 111 ft., (1880), Ottawa Trans. Co., Ltd., Ottawa.	Toronto Belle, stm., 17 tons, 44 ft., (1880), American Lumber Co., Toronto.
Taylor, Ella, stm., 34 tons, 60 ft., (1883), R. Leeson, Merriton, Ont.	Torpedo, stm., 8 tons, 34 ft., (1898), J. J. Wright, Toronto.
Taylor, Jos., stm., 17 tons, 37 ft., (1894), J. R. Booth, Ottawa.	Tradewind, sail, 181 tons, 100 ft., (1869), J. Oliver, Kingston.
Taylor, W. J., stm., 9 tons, 35 ft., (1883), St. Clair Tunnel Co., Sarnia.	Traveler, stm., 438 tons, 140 ft., (1899), Midland Towing & Wkg. Co., Ltd., Midland.
Tecumseh, stm., 840 tons, 200 ft., (1873), P. McArthur, Toronto.	Trent, paddle stm., 20 tons, 36 ft., (1898), D. Gilmour, Trenton.
Telegram, stm., 198 tons, 108 ft., (1885), Herbert Clelland, Collingwood.	Triton, stm., 12 tons, 44 ft., (1882), J. D. Reid, Cardinal.
Temiscamanguic, paddle stm., 413 tons, 133 ft., (1898), A. Lumsden, Ottawa.	Tropic, stm., 9 tons, 40 ft., (1885), Dr. Wm. A. Gray, Smith's Falls.
Temperance, sail, 38 tons, 66 ft., (1877), J. B. Gervais, Tilbury West.	Trudel, H., paddle stm., 13 tons, 35 ft., (1890), R. A. Klock, Klock's Mills.
Tempest, stm., 21 tons, 64 ft., (1884), Cleveland Sawmills Co., Ltd., Sarnia.	Try, sail, 84 tons, 91 ft., (1860), E. Griffin, Ottawa.
Tender, stm., 31 tons, 56 ft., (1880), W. White, Midland.	Turret Cape, stm., 1827 tons, 253 ft., (1895), Can. Lake & Ocean Nav. Co., Toronto.
Tepikan, stm., 29 tons, 55 ft., (1895), Edward Robertson, Sarnia.	Turret Chief, stm., 1881 tons, 253 ft., (1896), Can. Lake & Ocean Nav. Co., Toronto.

Montreal.
 Thames, stm., 76 tons, 82 ft., (1872), Wm. Milne,
 Nottawasaga River.
 Thames, sail, 151 tons, 110 ft., (1880), Ottawa
 Trans. Co., Ltd., Ottawa.
 †Theano, stm., 1646 tons, 241 ft., (1890), Algoma
 Central S. S. Lines, Sault Ste. Marie.
 Theresa, stm., 84 tons, 85 ft., (1885), John Flem-
 ing and A. Tyman, Toronto.
 Theresa, stm., 26 tons, 49 ft., (1900), Herman
 Mutchenbaker, Rosseau Falls.
 Thirty-three, sail, 91 tons, 92 ft., (1870), David
 Gilmour, Trenton.
 Thistle, paddle stm., 78 tons, 122 ft., (1894),
 The Toronto Ferry Co., Ltd., Toronto.
 Thistle, stm., 2 tons, 31 ft., (1895), W. E. James,
 Combermere.
 Thistle, sail, 23 tons, 48 ft., (1884), Angus Mc-
 Kinnon, Rat Portage.
 Thistle, stm., 5 tons, 40 ft., (1897), A. H. Taylor
 and J. Sutherland, Ottawa.
 Thistle, stm., 10 tons, 40 ft., (1901), W. J. Wil-
 son, Roddick, Rainy River.
 Thistle, sail, 117 tons, 108 ft., (1869), John Eligh
 and David Eligh, Burritt's Rapids.
 Thompson, John, stm., 5 tons, 39 ft., (1889),
 R. A. Klock, Klock's Mills.
 Thomson, David G., stm., 182 tons, 103 ft.,
 (1883), Montreal Trans. Co., Montreal.
 Three, sail, 105 tons, 94 ft., (1870), Dennis
 Murphy, Ottawa.
 †Three Rivers, paddle stm., 1710 tons, 220 ft.,
 (1874), Richelieu & Ont. Nav. Co., Montreal.
 Thrush, sail, 54 tons, 181 ft., (1890), Kingston &
 Montreal Forwarding Co., Ltd., Kingston.

Turret Crown, stm., 1837 tons, 253 ft., (1895),
 Can. Lake & Ocean Nav. Co., Toronto.
 Turtle, paddle stm., 38 tons, 65 ft., (1902), Geo.
 Gordon, et al., Pembroke.
 Turtle, stm., 33 tons, 48 ft., (1892), G. W. Mc-
 Farland, Cache Bay.
 Two, sail, 17 tons, 56 ft., (1895), Rainy River
 Nav. Co., Ltd., Rat Portage.
 Two Brothers, sail, 56 tons, 95 ft., (1881), Geo.
 Cousins, Belleville.
 Two Brothers, sail, 122 tons, 95 ft., (1868), Jno.
 Wright, Port Hope.
 Twilight, sail, 41 tons, 79 ft., (1882), Clement
 Bell, Belleville.
 Tymon, A. J., stm., 194 tons, 130 ft., (1892), A. J.
 Tymon, et al., Toronto, Ont.
 Ullacaula, stm., 6 tons, 38 ft., (1900), Chas. W.
 Turner, Cambellford.
 Umbria, stm., 43 tons, 58 ft., (1889), Jas. Mur-
 ray, St. Catharines.
 Una, stm., 22 tons, 46 ft., (1885), Wm. Finlay-
 son, Midland.
 Una, paddle stm., 19 tons, 38 ft., (1897), Geo.
 Claret, Port Arthur.
 Uncle Jim, stm., 11 tons, 50 ft., (1886), Robt.
 Graham and Matthew Graham, Kagawong.
 Uncle Tom, stm., 8 tons, 47 ft., (1893), Levi
 Young, Port Bruce.
 Undine, stm., 17 tons, 49 ft., (1889), The Polson
 Iron Works Co., Toronto.
 Undine, stm., 9 tons, 31 ft., (1897), Rainy River
 Nav. Co., Ltd., Rat Portage.
 Union, stm., 75 tons, 87 ft., (1890), J. A. Thiba-
 udeau, Pembroke.

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CANADIAN STEAM AND SAIL VESSELS OF THE GREAT LAKES—Continued.

Union, paddle stmr., 267 tons, 132 ft., (1866), The Fort Erie Ferry Ry. Co., Fort Erie.	Victoria, stmr., 188 tons, 128 ft., (1897), Pem- broke Nav. Co., Pembroke.
United Empire, stmr., 1961 tons, 258 ft., (1882), Northern Nav. Co. of Ontario, Ltd., Colling- wood, Ont.	Vienna, sail, 136 tons, 102 ft., (1871), F. H. Laird and T. E. Laird, Dresden.
United Lumberman, stmr., 399 tons, 139 ft., (1884) Geo. H. Morden, Oakville.	Viking, sail, 39 tons, 62 ft., (1891), F. H. Mitch- ell, Oakville.
Uno, sail, 75 tons, 76 ft., (1892), S. W. Whitley, Sombra.	Villeneuve, stmr., 28 tons, 50 ft., (1901), S. Vil- leneuve, et al, Rat Portage.
Upper Traverse, sail, 97 tons, 77 ft., (—), Minister of Marine and Fisheries, Ottawa.	Viola, stmr., 68 tons, 100 ft., (1888), The Viola Steam Yacht Co., Toronto.
Urania, paddle stmr., 898 tons, 180 ft., (1875), Wm. Woolatt, Walkerville.	Viper, stmr., 8 tons, 40 ft., (1899), F. J. Drake, Kingston.
Vale, Maids, stmr., 19 tons, 46 ft., (1902), Henry G. Buck, Norwood.	Viper, stmr., 34 tons, 60 ft., (1901), Wm. Collis, Bruce Mines.
Valeda, stmr., 2 tons, 30 ft., (—), Charles Le- moine, Pembroke.	Virginia, sail, 185 tons, 110 ft., (1874), Kingston & Montreal Forwarding Co., Ltd., Kingston.
Valeria, stmr., 52 tons, 75 ft., (1891), Jos. Dix, Kingston.	Virginia, paddle stmr., 1200 tons, 260 ft., Riche- lieu & Ont. Nav. Co., Montreal.
Van Allen, D. R., stmr., 318 tons, 136 ft., (1874), Peter Payette, Penetanguishene.	Vister, Bella, stmr., 5 tons, 37 ft., (1902), John H. Davis, Kingston.
Van Horn, Sir W. C., stmr., 60 tons, 50 ft., (1896), J. Harty, Fort Frances.	Viva, stmr., 7 tons, 33 ft., (1893), John McEwen, Sarnia.
Van Straubenzie, Sir C. T., sail, 317 tons, 127 ft., (1877), John Williams, Toronto.	Vivid, stmr., 56 tons, 83 ft., (1886), Frank B. Polson, Toronto.
Van Woodland stmr., 37 tons, 75 ft., (1900), Wm. T. Windsor, Callender.	Vixen, stmr., 68 tons, 43 ft., (1886), Georgian Bay Fish Co., Ltd., Collingwood.
Varuna, stmr., 134 tons, 94 ft., (1880), W. B. Cooper, Picton.	Vladimir, sail, 43 tons, 44 ft., (1897), S. Brown, Bracebridge.
Varunna, stmr., 1 ton, 23 ft., (1891), Geo. P. Spit- tal, Ottawa.	Volunteer, stmr., 3 tons, 35 ft., (1889), M. P. Davis, Ottawa.
Vedette, sail, 6 tons, 46 ft., (1892), F. M. Gray and J. C. Reid, Toronto.	Volunteer, sail, 197 tons, 110 ft., (1874), Jane E. Farrington, Belleville.
Vega, stmr., 7 tons, 37 ft., (1884), J. K. Mac- donald, Toronto.	Volunteer, sail, 59 tons, 88 ft., (1891), Barney Black, Kingston.
	Vreda, sail, 18 tons, 53 ft., (1888), A. G. Pen- chen, Toronto.

- Smith, Toronto.
 Ventura, stm., 7 tons, 35 ft., (1890), O. McVean, Dresden.
 Vera A., stm., 11 tons, 35 ft., (1902), Georgian Bay Lumber Co., Waubesaushene.
 Verberna May, stm., 16 tons, 38 ft., (1888), Richard Gawley, Mars P. O.
 Vergey, stm., 18 tons, 54 ft., (1888), Thos. H. Lawry, Hamilton.
 Verva, stm., 55 tons, 66 ft., (1898), John Waldie, Toronto.
 Vesper, stm., 3 tons, 30 ft., (1887), W. T. Gibbard, Napanee.
 Vesta, stm., 8 tons, 28 ft., (1895), Oronhyateka, Toronto.
 Vesta, stm., 14 tons, 45 ft., (1884), H. F. Bronson and E. H. Bronson, Ottawa.
 Vesta, sail, 260 tons, 135 ft., (1873), W. J. Pulling, Windsor, Ont.
 Vick, stm., 13 tons, 40 ft., (1890), V. Robinson, Chatham.
 Victor, sail, 140 tons, 108 ft., (1881), Ottawa Trans. Co., Ltd., Ottawa.
 Victoria, stm., 3 tons, 31 ft., (1891), W. F. Davidson, Colpoys's Bay.
 Victoria, stm., 23 tons, 60 ft., (1878), The Department of Public Works, Ottawa.
 Victoria, sail, 156 tons, 109 ft., (1870), Allan J. Holloway, Toronto.
 Victoria, paddle stm., 191 tons, 93 ft., Whitby & Port Perry Ry. Co., Whitby.
 Victoria, stm., 58 tons, 72 ft., (1900), The Rockport Navigation Co., Rockport.
 Victoria, stm., 4 tons, 35 ft., (1894), R. B. Rogers, Peterborough.
- Wahconah, stm., 1554 tons, R. O. & A. B. McKay, Hamilton.
 Walcot, H. T., sail, 163 tons, 110 ft., (1880), Ottawa Transportation Co., Ltd., Ottawa.
 Wales, stm., 350 tons, 126 ft., (1881), Westcott Wrecking Co., Sarnia.
 Wales, sail, 152 tons, 110 ft., (1881), Muskoka Mill & Lumber Co., Toronto.
 Walker, Hiram, sail, 98 tons, 95 ft., (1886), ———, Toronto.
 Wanda, stm., 4 tons, 36 ft., (1878), O. Bascom, Kemptville.
 Wanda, stm., 12 tons, 53 ft., (1898), T. Eaton, Toronto.
 Wanda, stm., 39 tons, 65 ft., (1899), Nicholas Henderson, Kingston.
 Wanderer, sail, 110 tons, 80 ft., (1866), John Spence, Jr., Southampton.
 Wanita, stm., 44 tons, 64 ft., (1896), John Miller, Ahmic Harbour.
 Wapenao, stm., 5 tons, 40 ft., (1893), T. Eaton, Toronto.
 Wapiti, stm., 18 tons, 55 ft., (1899), Henry Barber, Toronto.
 Water Lily, stm., 95 tons, 100 ft., (1891), A. W. Hepburn, Picton.
 Water Lily, stm., 54 tons, 80 ft., (1897-1901), Henry Calcut, Peterborough.
 Water Witch, stm., 18 tons, 44 ft., (1900), Michael Dovey, Lindsay.
 Water Witch, stm., 9 tons, 40 ft., (1880), J. H. Dunsford, Lindsay.
 Water Witch, paddle stm., 6 tons, 40 ft., (1880), Hugh McLean and F. McLean, Amable.

Watts, R., stm., 27 tons, 24 ft., (1887), Robt. Watts, Hamilton.	Widgeon, stm., 8 tons, 37 ft., (—), L. W. Johnson, Wabigoon.
Waubashene, stm., 97 tons, 71 ft., (1882), The Georgian Bay Lumber Co., Waubashene.	Widgeon, stm., 2 tons, 24 ft., (1894), Mrs. Margerie A. Blake, Rat Portage.
Waubashene, sail, 478 tons, 149 ft., (1872), Collins Bay Rafting & Forwarding Co., Kingston.	William, sail, 287 tons, 128 ft., (1875), Kingston & Montreal Forwarding Co., Ltd., Kingston.
Wawanosh, sail, 370 tons, 138 ft., (1873), Jas. King, Sarnia.	William Henry, sail, 185 tons, 111 ft., (1885), Ottawa Trans. Co., Ottawa.
We C. U., stm., 6 tons, 57 ft., (1898), Colin Wigle, Amherstburg.	William, John, stm., 14 tons, 36 ft., (1888), W. W. Carter, Fesserton.
Welcome, stm., 21 tons, 52 ft., (1886), Jessie Leham, Kagawong.	Williamson, Jas., sail, 155 tons, 110 ft., (1882), Ottawa Transportation Co., Ltd., Ottawa.
Welshman, stm., 156 tons, 105 ft., (1900), The Ottawa Forwarding Co., Ltd., Ottawa.	Willie, sail, 37 tons, 65 ft., (1871), J. Beausoliel, Sandwich East.
Wenonah, stm., 161 tons, 94 ft., (1886), The Muskoka & Nipissing Nav. Co., Gravenhurst.	Willis, stm., 2 tons, 30 ft., (1893), D. O'Connor, Ottawa.
Wenonah, stm., 6 tons, 37 ft., (1899), Wm. McLaren, Perth.	Willson, Jennie, stm., 7 tons, 36 ft., (1879), Snider Lumber Co., Ltd., Waterloo.
Weslemkoon, stm., 17 tons, 37 ft., (1895), Rideau Lumber Co., Ottawa.	Wilson, Alfred, stm., 33 tons, 45 ft., (1879), D. Sutherland, Chatham, Ont.
West Arm, stm., 27 tons, 55 ft., (1901), Henry Quesnel, Jr., Sturgeon Falls.	Wilson, John, sail, 158 tons, 110 ft., (1881), Ottawa Transportation Co., Ltd., Ottawa.
West, D. C., stm., 60 tons, 80 ft., (1874), J. Fleming, Toronto.	Wilson, Wm., stm., 12 tons, 40 ft., (1892), C. Ross, Jr., Sherbrook.
West, May, stm., 134 tons, 96 ft., (1898), Comp-troller Northwest Mounted Police, Ottawa.	Wiman, Erastus, stm., 54 tons, 65 ft., (1890), Mrs. Mary Denton and Lorenzo McHardy, Huntsville.
†Westmount, stm., Montreal Trans. Co., Montreal.	Winnie, stm., 14 tons, 48 ft., (1897), L. Belmore, Southampton.
Westover, Luther, paddle stm., 127 tons, 112 ft., (1877), Bouteille Towing & Wkg. Co., Ltd., Sarnia.	Winnipeg, sail, 681 tons, 179 ft., (1893), Montreal Trans. Co., Montreal.
Wexford, stm., Capt. John Bassett, Owen Sound, Ont.	Winona, sail, 149 tons, 110 ft., (1890), Ottawa Transportation Co., Ltd., Ottawa.
	Winona, stm., 231 tons, 100 ft., (1902), Navigation Co. of Port Stanley, Port Stanley.

Ottawa Trans. Co. Ottawa.
 Where Now, stm., 48 tons, 77 ft., (1889), Levi B. Spencer, Kingston.
 Whistle Wing, paddle stm., 88 tons, 74 ft., (1872), H. Calcut, Peterborough.
 White, D. L., stm., 56 tons, 62 ft., (1896), Canada Iron Furnace Co., Midland.
 White, Eliza, sail, 105 tons, 93 ft., (1867-1887), P. McManus, Picton.
 White Oak, sail, 180 tons, 111 ft., (1867), D. W. Spence, Southampton.
 White Star, paddle stm., 9 tons, 30 ft., (1900), Mrs. Ellen White, Lakefield.
 †White Star, paddle stm., 451 tons, 167 ft., (1897), W. W. Paterson, Oakville.
 White Wings, stm., 3 tons, 35 ft., (1894), T. McDonald, Thurlow.
 White Wings, sail, 22 tons, 40 ft., (1886), H. R. Fowler, Port Credit.
 White, Wm., stm., 18 tons, 36 ft., (1897), L. R. Johnstone, et al., Wabigoon.
 Wiarton Belle, stm., 88 tons, 103 ft., (1871), John Gidley, Penetanguishene.
 Wide Awake, 24 tons, 65 ft., (1887), John Tuttle, Kingston.

WHEATON, sail, 500 tons, 120 ft., (1899), F. F. Pardee, Sarnia.
 Wona, sail, 4 tons, 27 ft., (—), Wm. P. Eby, Toronto.
 Wood, sail, 171 tons, 111 ft., (1887), Ottawa Trans. Co., Ltd., Ottawa.
 Woodbury, W. A., sail, 150 tons, 102 ft., (1879), Ottawa Transportation Co., Ltd., Ottawa.
 Wright, Albert, stm., 29 tons, 57 ft., (1879), W. H. Plummer, Sault Ste. Marie, Ont.
 Wright, Tommy, stm., 12 tons, 44 ft., (1878), James Anderson, Midland.
 You and I, stm., 25 tons, 52 ft., (1902), John Noker, Port Maitland.
 Zeila, stm., 3 tons, 36 ft., (1890), B. D. Stacey, Brockville.
 Zelma, stm., 1 ton, 22 ft., (1901), R. L. Morgan, Lindsay.
 Zena, stm., 4 tons, 27 ft., (1886), James Whalen, Port Arthur.
 Zephyr, stm., 19 tons, 52 ft., (1885), Thos. Marks, Port Arthur.
 Zephyr, stm., 3 tons, 27 ft., (1886), C. A. Bogert, Toronto.

The Ship Masters' Association

ITS AIMS AND OBJECTS. WHO ARE ITS MEMBERS? EXTRACTS FROM CONSTITUTION.

ARTICLE I.—PURPOSE OF THE ASSOCIATION.

Sec. 2. The purpose of this association shall be to improve and elevate the character of its members, to create a brotherly feeling, to visit the sick, render necessary assistance in case of death, to provide for a beneficiary fund, and to pay the same to the family of deceased members, or as may be otherwise directed.

ARTICLE V.—MEMBERSHIP.

Sec. 1. Every applicant for membership in this association shall hold a master's certificate issued by the United States government, in force at the date of his becoming a member. He must also have been actively engaged in sailing within a period of two years prior to the date of his application for membership.

In Memory

**Brother Ship Masters who have departed this life
since the Association was organized.**

Archer,
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Maytham,
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Thomas Hackett,
Fred G. Boothman,
John Wilson,
Peter J. Girard,
Eugene Winchester,
John Cornish,
Thomas Beniteau,
Patrick Pardee,
Zach Sargisson,
Alpha Simons,
John R. Donahue,
J. B. McManus,
C. S. Geel,
W. H. Cowin,
W. S. Mack,
Byron Brown,
Lorenzo W. Cook,
Bernard Wilds,
David Critchett,
Wm. G. Turner,
Robt. Moore,
J. S. Lawton,
J. W. Farwell,
J. W. Martin,
Peter Cromley,
Thos. Cowan,
C. A. Peltier,
Thos. H. Stafford,
Wm. H. Wallace,
Daniel Jones,
James Snell,
Chas. W. Black,
John N. Lundy,
Henry Root,
John Freer,
Alvin Neal,
F. J. Cadotte,
J. B. Pierce,
James Drake,
John C. Brown,
Delos Waite,
John S. Van Rensler,
D. H. Bryant,
Peter C. Bassett,
A. A. Cox,
Joseph Nicholson,
A. Morrison,
John W. Jordan,
Wm. Young,
Fred N. La Salle,
Albert Stewart,
F. J. McCabe,
James Lawless,

John Leonard,
John Hagan,
John Hurley,
Jos. L. Munger,
J. W. Moore,
Chas. Miner,
Thos. Currie,
W. S. Smith,
John Robertson,
Thos. Ledden,
Michael Breathour,
Morton H. Place,
W. H. Larrabee,
J. D. Mullen,
James Edgecomb,
Joseph Shackett,
Thomas Walker,
Wm. Rolls,
E. Saveland,
W. H. McNelly,
James Donegan,
E. T. Hawley,
F. D. Welcome,
P. Ryan,
Wm. Cumming,
Wm. Hutcheson,
W. R. Williams,
C. T. Morley,
Thos. Richardson,
William Cavers,
Martin Johnston,
Wm. Morse,
John Buie,
M. W. Gotham,
Henry Jeffrey,
C. H. Lewis,
L. H. Waterbury,
J. C. Carry,
A. C. Reimers,
E. W. Haskins,
B. C. Gray,
D. A. McLaughlin,
Henry Berlin,
Warren Morris,
W. W. Brown,
J. R. Sinclair,
Louis Ryerse,
Wm. Dickson,
Richard Neville,
Charles Brown,
R. H. White,
A. P. Clinton.

Endowment Fund in 1903.

A STATEMENT FROM THE SECRETARY SHOWING AMOUNTS PAID INTO
THIS FUND DURING 1903 BY EACH SUBORDINATE LODGE AND AMOUNTS
PAID IN THE SAME YEAR TO BENEFICIARIES OF THE FUND THROUGH
SUBORDINATE LODGES.

Buffalo lodge paid into the endowment fund.....	\$ 2,552 00
" " paid two death claims to beneficiaries out of en- dowment fund	2,000 00
Port Huron lodge paid into the endowment fund.....	\$ 1,634 00
" " paid one death claim to beneficiary out of endowment fund	1,000 00
Chicago lodge paid into the endowment fund.....	\$ 2,394 00
" " paid one death claim to beneficiary out of en- dowment fund	1,000 00
Cleveland lodge paid into the endowment fund.....	\$ 3,956 00
" " paid seven death claims to beneficiaries out of endowment fund	7,000 00
Milwaukee lodge paid into the endowment fund.....	\$ 1,282 00
" " paid one death claim to beneficiary out of endowment fund	1,000 00
Detroit lodge paid into the endowment fund	\$ 3,458 00
" " paid five death claims to beneficiaries out of en- dowment fund	5,000 00
Marine City lodge paid into the endowment fund	\$ 782 00
" " paid no death claims to beneficiaries out of endowment fund .....	.....
Toledo lodge paid into the endowment fund	\$ 792 00
" " paid no death claims to beneficiaries out of en- dowment fund .....	.....

Note—The percentage of deaths for the year 1903 was 2 per cent. plus
of the yearly membership.

In Memory

**Of brother Ship Masters who have departed this life
since the Association was organized.**

John A. Archer,
D. M. Becker,
J. P. McArthur,
Thomas Collins,
I. H. Andrews,
John Nelson,
P. J. Sexton,
J. P. Hodges,
John Cotton,
H. J. Hatch,
Edward Condon,
John Condon,
Thomas Riordan,
James Carlisle,
Benj. Chambers,
Henry Ellis,
John Keelin,
Robert Hayes,
Albert Meyers,
P. G. Minch,
Peter J. Kenney,
A. Muir,
A. W. Reed,
P. Ryan,
E. W. Dorsey,
E. K. Porter,
L. H. Weeks,
P. Woods,
S. Shannon,
W. E. Ladner,
H. A. Sisson,
H. B. Vosburg,
George Scott,
Thomas Maytham,
E. M. Peck,
Jno. R. Gorman,
Thos. Harbottle,
James Frasier,
Louis Guthrie,
George W. Stoddard,
Albert Meswald,
D. M. Jones,
James Webber,
Thomas Rowley,
R. E. Gain,
E. J. Purcell,
William Carlisle,
N. Robinson,
Edward Kelley,
H. C. Little,
Alexander Read,
Smith Moore,
John C. Flor,

Thomas Hackett,
Fred G. Boothman,
John Wilson,
Peter J. Girard,
Eugene Winchester,
John Cornish,
Thomas Beniteau,
Patrick Pardee,
Zach Sargisson,
Alpha Simons,
John R. Donahue,
J. B. McManus,
C. S. Geel,
W. H. Cowin,
W. S. Mack,
Byron Brown,
Lorenzo W. Cook,
Bernard Wilds,
David Critchett,
Wm. G. Turner,
Robt. Moore,
J. S. Lawton,
J. W. Farwell,
J. W. Martin,
Peter Cromley,
Thos. Cowan,
C. A. Peltier,
Thos. H. Stafford,
Wm. H. Wallace,
Daniel Jones,
James Snell,
Chas. W. Black,
John N. Lundy,
Henry Root,
John Freer,
Alvin Neal,
F. J. Cadotte,
J. B. Pierce,
James Drake,
John C. Brown,
Delos Waite,
John S. Van Rensler,
D. H. Bryant,
Peter C. Bassett,
A. A. Cox,
Joseph Nicholson,
A. Morrison,
John W. Jordan,
Wm. Young,
Fred N. La Salle,
Albert Stewart,
F. J. McCabe,
James Lawless,

John Leonard,
John Hagan,
John Hurley,
Jos. L. Munger,
J. W. Moore,
Chas. Miner,
Thos. Currie,
W. S. Smith,
John Robertson,
Thos. Ledden,
Michael Breathour,
Morton H. Place,
W. H. Larrabee,
J. D. Mullen,
James Edgcomb,
Joseph Shackett,
Thomas Walker,
Wm. Rolls,
E. Saveland,
W. H. McNelly,
James Donegan,
E. T. Hawley,
F. D. Welcome,
P. Ryan,
Wm. Cumming,
Wm. Hutcheson,
W. R. Williams,
C. T. Morley,
Thos. Richardson,
William Cavers,
Martin Johnston,
Wm. Morse,
John Bule,
M. W. Gotham,
Henry Jeffrey,
C. H. Lewis,
L. H. Waterbury,
J. C. Carry,
A. C. Reimers,
E. W. Haskins,
B. C. Gray,
D. A. McLaughlin,
Henry Berlin,
Warren Morris,
W. W. Brown,
J. R. Sinclair,
Louis Ryerse,
Wm. Dickson,
Richard Neville,
Charles Brown,
R. H. White,
A. P. Clinton.

Missing From Our Ranks.

(Adopted at the meeting of the Grand Lodge in Marine City, January, 1904.)

We bow with humble submission and Christian fortitude to the decrees of an All Wise Providence, Who in His infinite goodness and wisdom has thought best to call our brothers home to Him, and after another year of the history of this grand organization is reviewed, we are brought face to face with the realization that we, sooner or later, will be numbered among those of our brothers who have been called to their long rest. Still it remains for us to say that we are better and stronger for having known them. Our loss has been great, as the following list will show:

J. C. Carry,	Henry Berlin,	Wm. Dickson,
A. C. Reimers,	Warren Morris,	Richard Neville,
E. W. Haskins,	W. W. Brown,	Charles Brown,
B. C. Gray,	J. R. Sinclair,	R. H. White,
D. A. McLaughlin,	Louis Ryerse,	A. P. Clinton.

Their work is done; they now fully realize:

After the shower the tranquil sun,
After the snow the emerald leaves;
Silver stars after the day is done,
After the harvest the golden sheaves.

After the clouds the violet sky,
After the tempest the hill of waves,
Quiet woods when the winds go by,
After the battle peaceful graves.

So, to the family and friends who have sustained the great loss of our brothers, be it

Resolved, That we extend our heartfelt sympathy and condole with them in this their sad hour of affliction, trusting that the Giver of every good and perfect gift may endow them with the strength to bear their great loss.

An Address by the First Grand President.

(From Proceedings of the Grand Lodge, Ship Masters' Association, in annual session at Marine City, Mich., January, 1904.)

To the Grand Lodge, Ship Masters of the Great Lakes, assembled in Marine City—My Brothers:

It has been several years since I have had the pleasure of meeting with you, and the meeting is most gratifying to me, I can assure you. When I look back but a few years and recall our first start with many difficulties to overcome—difficulties with forecasts of failure from many deeply interested—it is certainly gratifying to feel that we have passed the dark and treacherous horizon, that the golden sun is now shining in all its beauty, and that peace and prosperity reign. Many are today in our midst and we welcome all most cordially. Now when I attend my own lodge or any of the sister lodges my heart swells with joy to meet my fellow masters and brothers, and when I feel the friendly grasp of their warm hands, the beating of their great and noble hearts seems to be distinctly heard. When I visit my sister lodges and view their spacious rooms so beautifully decorated and furnished, and masters with smiles of contentment and happiness, I cannot deprive myself of the pleasure of feeling proud of the day when I first contemplated the promotion of this flourishing association. When we look at our annual reports from the executive officers and note the vast amount of money we have paid to our deceased brothers' widows and children, who can say that we are not doing the work of our Divine Master. In the short period of time since the starting of our association, upwards of \$162,000 has been expended, and in a number of instances of which I have personal knowledge, this money was paid at a time when it prevented untold discomfort, and has been a Godsend to many. I tell you, my brother shipmates, I know this is a good work, and let there be no more grumbling, which causes lapses to occur, and which of course makes a loss of some of our members, much to be regretted. Instead, be always mindful of your full duty. Do not allow anything to keep you from attending your lodge meetings. Pay promptly your assessments and dues to your lodge, as this is essential to the welfare of all institutions and especially this one of ours. No man can boast of a more charitable institution than ours. Be proud, therefore, of our association, proud of your companions, and proud of the figures you fly to the breeze, and if a brother falls by the wayside do not crush him down, but reach out your hand and help him to keep within the channel that means so much to our weaker brothers. Our personal standing is good, our purposes in all things are good; then let us stand firm, like the hills of time; let each master renew his efforts, if possible, to make this, as I know it will be, the grandest, noblest and strongest of institutions, with its lodges enrolled in every port of any note throughout the entire coasts of the Great Lakes.

Address of Grand President Hamilton.

(From Proceedings of the Grand Lodge, Ship Masters' Association, in annual session at Marine City, Mich., January, 1904.)

This is the thirteenth year in the life of our organization. We are convened for the first time in Marine City, and after our work is done I think there will be a warm spot in the hearts of all the members for this city. This beautifully situated little city on the banks of the river St. Clair, a river over whose waters more tonnage passes annually than any other river except Detroit river, is indeed a marine city. We are gathered here for the purpose of reviewing the work of the past year in connection with our organization and to make rules for its improvement in the future; also to elect officers for the Grand Lodge for the coming year. I think you all see the necessity of an effort to increase the membership of our noble organization, and I hope every member will consider it his duty to try and increase our numbers. Every man holding a master's license should be a member.

Thirteen of our brothers have departed this life during the past year. Their beneficiaries have been paid, together with four others left over from the year previous, making seventeen death claims paid during the year just closed. There have been twelve assessments issued and it is remarkable to note how soon they were paid and the claims taken care of, which speaks well for our members. One of the great beauties of our organization lies in the fact that most of the members are personally acquainted with each other, and while a death carries a greater amount of sorrow under these circumstances, there is more pleasure in paying our assessments than in most fraternal organizations, on account of this acquaintance, which in many cases is really a very close friendship. From a financial standpoint the association is in good shape, as you will notice later on from the grand secretary's and grand treasurer's reports. As it is not our policy to accumulate a fund but to assess the members when necessary, we of course should not have a very heavy bank account.

Regarding our directory, which is getting to be one of the most popular books found on the desks of those engaged in all branches of marine business, it is improving every year. Let us try to make a greater improvement in our next issue. It is useful and profitable to our organization. The profits from the last issue paid the expenses of the last Grand Lodge and one death claim, together with many other expenses.

I wish to extend a welcome to all the past Grand Lodge officers and members here with us and to say that we are proud to have our first grand president, Capt. Alexander Clark, with us on this occasion, as well as many other members. I wish to thank the officers and members for the honor bestowed on me a year ago, and I will be pleased to give my successor my support and wish him a successful administration.

The Marine City Meeting.

(Extract from Report of Proceedings of final session of Grand Lodge, Ship Masters' Association at Marine City, Mich., January, 1904.)

We, the members and representatives of the Grand Lodge, Ship Masters' Association, here assembled, do most heartily and sincerely extend to Marine City people in general, our heartfelt thanks and appreciation for the grand manner in which we have been entertained. And we especially tender our thanks to the ladies, who provided so bountiful a repast for those who attended the ball given in our honor.

To His Honor the Mayor of Marine City: We, the members and representatives of the Grand Lodge, Ship Masters' Association, desire to express our sincere thanks to you, and your amiable wife, for the kind and devoted manner in which you have so royally entertained ourselves, our wives and visiting brethren.

Resolved, That we return the key of this city so magnanimously presented to us by his honor, and pledge ourselves to the support of the mayor and common council for the maintenance of law and good order.

Resolved, further, that a copy of this resolution be mailed to his honor.

The reply of Mayor McLouth to the foregoing was as follows:

Capt. F. B. Higgin, Grand Financial Secretary, Ship Masters' Association—Dear Sir: In behalf of the citizens of Marine City, Mrs. McLouth and myself, I wish to express appreciation of the kind resolutions you so generously sent us. Further, I wish to say the visit of the Grand Lodge of Ship Masters in our city has given us all great pleasure, and friendships formed will always be one of the bright and cheering pictures in memory's cabinet. It is my sincere wish that the Ship Masters' Association and its several members ever have "fair wind and flat water" in all their voyages and undertakings. With kindest regards I remain,

Very truly yours,

S. C. McLOUTH, Mayor.

A very hearty vote of thanks was also extended to Marine City lodge for its great kindness and courtesy and for the royal manner in which the Grand Lodge was entertained.

Suggestion from Capt. James Stone.

Capt. F. B. Higgin, Grand Secretary, Ship Masters' Association—
Dear Sir:

I am thankful to you for the opportunity to present through the Ship Masters' directory a suggestion that will often result in a saving of time for both the officers of steam vessels and the government inspectors in times when the work of inspection is under way, especially during the spring rush. It frequently happens that the inspectors upon going aboard to undertake their work find that through an oversight the ship is not ready for inspection; the necessary details required by law have not been given attention. A necessary postponement follows, and there is dissatisfaction on both sides. If the vessel's officers will take the precaution of consulting previous certificates of inspection so as to meet all requirements, these delays can be avoided.

Respectfully,

Cleveland, March 5, 1904.

JAMES STONE.

Signals—Deck and Engine Room.

Rules and regulations of the United States steamboat inspection service relating to starting, stopping and backing signals for the great lakes provide that there shall be used between the master or pilot and engineer the following code of signals, to be made by bell or whistle namely:

- | | |
|-----------------------------|------------|
| 1 whistle or 1 bell | Go ahead. |
| 1 whistle or 1 bell | Stop. |
| 2 whistles or 2 bells | Back. |
| 3 whistles or 3 bells | Check. |
| 4 whistles or 4 bells | Strong. |
| 4 whistles or 4 bells | All right. |

Two whistles or two bells shall always mean back, irrespective of *other signals previously given.*

Lake Ship Masters and Salt Water Licenses.

At the annual meeting of the Grand Lodge in Marine City, Mich., in January, 1904, the grand secretary was instructed to communicate with the Supervising Inspector-General of the United States Steamboat Inspection Service on the subject of the status of lake shipmasters as regards licenses for ocean service. Correspondence on the subject follows:

To the Supervising Inspector-General of Steam Vessels, Washington, D. C.:—

Sir:—At the annual meeting of the Grand Lodge, Ship Masters' Association of the Great Lakes, held in Marine City, Mich., January 19 to 23 inclusive, the following resolution was offered, and on motion the same was adopted unanimously:

"Resolved that the secretary of this Grand Lodge correspond with the Supervising Inspector-General of Steam Vessels and determine the status of lake ship masters in regard to standing an examination for navigation license on the ocean, defining their rights and privileges in that respect, and that the secretary notify each subordinate lodge of the decision given, defining the law as it now stands."

I am anxious to publish in the annual directory of the Ship Masters' Association such information as we may have from you on this subject, and if you will therefore kindly give the matter immediate attention you will greatly oblige.

Yours respectfully,

Office of Ship Masters' Association,
Chicago, March 8, 1904.

F. B. HIGGIE,
Grand Secretary.

The reply of Supervising Inspector-General Uhler, which was made very promptly, is as follows:

Capt. F. B. Higgie, Grand Secretary, Ship Masters' Association of the Great Lakes, Chicago:—

Sir:—I am in receipt of your letter of March 8, in which is incorporated a resolution that was offered and unanimously adopted at the annual meeting of the Grand Lodge, Ship Masters' Association of the Great Lakes, at Marine City, Mich., January 19-23, 1904, and in reply thereto you are informed that, according to Sec. 14, Rule V, of the General Rules and Regulations prescribed by the Board of Supervising Inspectors of Steam Vessels, as amended January, 1903, no person can receive an original license as master of ocean or coastwise steam vessels who has not served at least three years on seagoing or coastwise steam vessels, and

year of which must have been as chief mate of such vessels, but in the case of any person who has had three years actual practical experience as master of steam vessels of 1,000 tons or upward on the great lakes, or any person who has had one year's actual practical experience as first-class pilot on steamers of 1,000 gross tons and upward on the great lakes, and who has been licensed as chief mate of ocean steamers, the experience of one year as chief mate under this requirement must have been on ocean steamers of 1,000 gross tons and upward.

No original license as master or mate of ocean steamers shall be issued to any person, or grade of license raised, or route extended, who does not understand navigation, and who is not able to determine a ship's position at sea by observation of the sun, to obtain longitude by chronometer, and to determine ship's latitude by meridian altitude of either the sun, moon or stars.

The only privilege that masters or pilots of lake steamers have when applying for license as master of ocean or coastwise steam vessels is that they do not have to serve three years on ocean or coastwise steam vessels, as one year's service as chief mate on an ocean or coastwise steam vessel of 1,000 gross tons and upward will be accepted as the necessary experience.

In order to secure a license as a chief mate of ocean steamers, all the experience that is necessary to show is that the applicant has had three years actual practical experience as master of steamers of 1,000 tons and upward on the great lakes, or as first-class pilot of the same class of steamers for one year.

Trusting that I have made the matter plain for you, I beg to remain,
Respectfully, GEO. UHLER,
Department of Commerce and Labor, Supervising Inspector-General.
Steamboat Inspection Service,
Washington, D. C., March 11, 1904.

Co-operation with the Weather Bureau.

By WILLIS L. MOORE, Chief United States Weather Bureau.

The work of equipping weather bureau stations on the great lakes with standard steel towers and electric lanterns for the display of storm warnings has been advanced as rapidly as money available for the purpose has permitted, and sixty-three of the one hundred points at which storm warnings are displayed on the lakes are now supplied with towers, and forty-eight with electric lanterns. During the coming fiscal year addi-

tional towers will be erected, and, ultimately, the standard equipment for the display of storm warnings will be installed at all important shipping ports, and also at points favorably situated for displaying the warnings for the benefit of passing vessels.

An important extension of this work was inaugurated in May, 1903, when a cable was laid across the channel from Sleeping Bear point to South Manitou island. Connection with this cable is made with a land line from Sleeping Bear point to Glen Haven. Daily forecasts of the direction and force of the wind are telegraphed to the storm warning displayman at South Manitou, and day and night storm warnings are displayed from a steel tower that is located a short distance north of the lighthouse tower. The displays can be seen from any point in the harbor, and by vessels passing the island bound in either direction. The displayman at South Manitou is located at the station of the United States life saving service, and vessels in distress, or wishing to be reported, are invited to communicate with that official.

Provision is made in the appropriation bill now before congress for a cable to North Manitou island and the establishment of a storm warning station on that island, and the work of installation will probably begin during the coming summer. A cable to Beaver island and the establishment of a storm warning station at St. James has also been proposed.

The fact that the storm warning service of the great lakes is maintained at public expense solely in the interest of the lake marine places upon ship masters and ship owners a part of the responsibility for its most effective operation. The weather bureau has equipped and manned numerous stations and provided all practicable means of communication between its stations and vessel masters, and it issues daily weather charts and bulletins at its more important stations that are, so far as possible, supplied to all persons interested in the commerce of the great lakes. Ship masters have been invited by weather bureau representatives, and through its publications, to telegraph, at government expense, from any port on the lakes to our offices in Chicago or Buffalo for information regarding expected weather changes, and the entire resources of the bureau have, in fact, been placed at the disposal of ship masters with the reasonable expectation that they would avail themselves of the information thus freely tendered.

In this connection I desire to again extend a cordial invitation to representatives of lake marine interests to visit our local offices with a view to not only familiarize themselves with weather bureau methods and resources but to suggest, out of their experiences, means that may be calculated to make our work of still greater value to the ship master.

Great Lighthouse Institution.

With each succeeding year the reports of the United States Lighthouse Board, which is a part of the department of commerce and labor, show the greatness of this institution. Its scope is greater than that of any similar body in the world. On Oct. 15, 1903, there were under control of this establishment 10,192 aids to navigation, divided as follows:

Lighthouses and beacon lights	1,425
Light-vessels in position	45
Light-vessels for relief	8
Gas-lighted buoys in position	119
Fog signals operated by steam, caloric, or oil engines.....	200
Fog signals operated by machinery.....	250
Post lights	1,875
Day or unlighted beacons	550
Whistling buoys in position	90
Bell buoys in position	130
Other buoys in position	5,500
Total	10,192

In the construction, care, and maintenance of these aids to navigation there were employed:

Steam tenders	39
Steam launches	7
Sailing tenders	2
Light keepers	1,550
Officers and crews of light ships and tenders	1,225
Laborers in charge of post lights.....	1,600

As showing exactly the expenditure involved in maintenance it may be noted that for the present fiscal year, to end June 30, 1904, the appropriations from congress aggregate \$3,839,000. The items involved in maintenance are:

Supplies to lighthouses	\$ 475,000
Repairs to lighthouses	700,000
Salaries of light keepers	815,000
Expenses of light vessels	500,000
Expense of buoyage	550,000
Expenses of fog signals	205,000
Lighting of rivers	300,000
Survey of lighthouse sites	1,000
Oil houses for light stations	10,000
Porto Rican lighthouse service	75,000
Maintenance of lights on channels of the great lakes.....	4,000
Alaskan lighthouse and fog signal stations.....	200,000
Point au Pelee light vessel, Lake Erie.....	4,000
Total	\$3,839,000

Life-Saving Stations on the Lakes.

LAKE ONTARIO.

Big Sandy—North side mouth of Big Sandy creek.
Oswego—East side entrance of Oswego harbor.
Charlotte—East side entrance of Charlotte harbor.
Niagara—East side entrance of Niagara river.

LAKE ERIE.

Buffalo—South side entrance of Buffalo harbor.
Erie—North side entrance of Erie harbor.
Ashtabula—West side of Ashtabula harbor.
Fairport—West side entrance of Fairport harbor.
Cleveland—West side entrance of Cleveland harbor.
Marblehead—Point Marblehead, near quarry docks.

LAKE HURON.

Lake View Beach—Five miles north of Ft. Gratiot light.
Harbor Beach—Inside Harbor Beach harbor.
Point aux Barques—Near lighthouse.
Port Austin—About 2 miles northeast of Port Austin and about 2 miles southeast of Port Austin reef light.
Tawas—Near lighthouse.
Sturgeon point—Near lighthouse.
Thunder Bay island—West side of island.
Middle island—North end of the island.
Hammond—Hammond's bay.
Bois Blanc—About midway east side of island.

LAKE SUPERIOR.

Vermilion—Ten miles west of Whitefish point.
Crisps—Eighteen miles west of Whitefish point.
Two Heart river—Near mouth of Two Heart river.
Deer Park—Near mouth of Sucker river.
Grand Marais, Mich.—West of harbor entrance.
Marquette—Near lighthouse.
Portage—Old Portage Lake ship canal, $\frac{3}{4}$ mile from north end, on east bank.
Duluth—On Minnesota point, upper Duluth.

LAKE MICHIGAN.

Beaver island—Near lighthouse.
Charlevoix—South side of harbor entrance.
North Manitou island—Near Pickards wharf.
South Manitou island—Near lighthouse.
Sleeping Bear point—Near Glen Haven.
Point Betsie—Near lighthouse.

Frankfort—South side entrance of harbor.
Manistee—North side entrance of harbor.
Grande Pointe au Sable—One mile south of light.
Ludington—North side entrance of harbor.
Pentwater—North side entrance of harbor.
White river—North side entrance of White Lake.
Muskegon—North side entrance of harbor, Port Sherman.
Grand Haven—North side entrance of harbor.
Holland—In the harbor, south side.
South Haven—North side entrance of harbor.
Saint Joseph—In the harbor, north side.
Michigan City—East side entrance of harbor.
South Chicago—North side entrance of Calumet harbor.
Jackson Park—About 7 miles S. by E. of Chicago river light.
Old Chicago—In the harbor.
Evanston—On the Northwestern University grounds.
Kenosha—In the harbor, on Washington island.
Racine—In the harbor.
Milwaukee—Near entrance of harbor, south side.
Sheboygan—Entrance to harbor, north side.
Two Rivers—North side entrance of harbor.
Kewaunee—North side entrance of harbor.
Sturgeon Bay canal—Eastern entrance of canal, north side.
Baileys Harbor—On easterly side of harbor.
Plum island—Near northeast point of island, 2 miles northwest of Pilot island light.

Reports of Accidents.

It is provided by section 17, rule 5 of the general rules and regulations prescribed by the United States board of supervising inspectors of steamboats that "whenever a steamer meets with an accident involving loss of life or damage to property, it shall be the duty of the licensed officers of any such steamer to report the same in writing and in person, without delay, to the nearest local board; provided, when from distance it may be inconvenient to report in person, it may be done in writing only, and the report sworn to before an authorized magistrate."

The United States statutes provide that reports of casualties must also be made to collectors of customs. The collectors provide vessel masters with blanks for this purpose. The law providing for reports to collectors is contained in sections 10, 11 and 12 of the act of June 20, 1874, which are as follows:

Sec. 10. That from and after July 1, 1874, whenever any vessel of the United States has sustained or caused any accident involving the loss of life, the material loss of property, or any serious injury to any person, or has received any material damage affecting her seaworthiness or her efficiency, the managing owner, agent, or master of such vessel shall,

within five days after the happening of such accident or damage, or as soon thereafter as possible, send by letter to the collector of customs of the district wherein such vessel belongs, or of that within which such accident or damage occurred, a report thereof, signed by such owner, agent, or master, stating the name and official number (if any) of the vessel, the port to which she belongs, the place where she was, the nature and probable occasion of the casualty, the number and names of those lost, and the estimated amount of loss or damage to the vessel or cargo; and shall furnish, upon the request of either of such collectors of customs, such other information concerning the vessel, her cargo, and the casualty as may be called for; and if he neglect or refuse to comply with the foregoing requirements, after a reasonable time, he shall incur a penalty of \$100.

Sec. 11. That whenever the managing owner or agent of any vessel of the United States has reason, owing to the non-appearance of such vessel, or to any other circumstance, to apprehend that such vessel has been lost, he shall, as soon as conveniently may be, send notice, in writing, to the collector of customs of the port to which said vessel belonged, of such loss, and the probable occasion thereof, stating the name and official number (if any) of the vessel, and the names of all persons on board, so far as the same can be ascertained, and shall furnish, upon request of the collector of such port, such additional information as he may be able; and if he neglect to comply with the above requirements, within a reasonable time, he shall incur a penalty of \$100.

Sec. 12. That it shall be the duty of the collectors of customs to immediately transmit to the secretary of the treasury such reports and information as they may receive under the provisions of the two preceding sections, and they shall also report to the secretary of the treasury any neglect or refusal on the part of the managing owner, agent, or master of any vessel of the United States to comply with the requirements thereof.

Capacity of Lifeboats.

Regulations of the United States steamboat inspection service contain the following rule for determining the capacity of lifeboats:

Multiply the outside length, outside width, and inside depth together, and the product by .6; and divide the product by 10 for ocean, lake, bay, or sound steamers; and, for river steamers, divide the product by 7; the quotient will be the number of persons such a boat is allowed to carry.

Example—The carrying capacity of a boat 20 ft. in length, 5 ft. in breadth, and 3 ft. in depth will be determined as follows:

For ocean, lake, bay, or sound steamers,

$$\frac{20 \times 5 \times 3 \times .6}{10} = \frac{180}{10} = 18 \text{ persons.}$$

$$\text{For river steamers, same boat, } \frac{180}{7} = 25 \text{ persons.}$$

Canals from Lakes to Atlantic.

On another page will be found a small diagram with brief reference to canals of the St. Lawrence river. A demand has existed for a more complete description of the Canadian canals in this work. It will be found in the following paragraphs:

The Canadian canals, which have made it possible for a vessel drawing 14 ft. of water to reach the Atlantic from the lakes, are as follows, beginning down the St. Lawrence river: Lachine canal, $8\frac{1}{2}$ miles; Soulanges canal, 14 miles; Cornwall canal, 11 miles; Farran's Point canal, 1 mile; Rapide plat canal, 3 2-8 miles; Galops canal, 7 1-3 miles; Welland canal, $26\frac{3}{4}$ miles; total 72 2-8 miles. The River St. Lawrence with the system of canals established on its course above Montreal, and the lakes Ontario, Erie, St. Clair, Huron and Superior, with connecting canals, afford a course of water communication extending from the Straits of Belle Isle to Port Arthur at the head of Lake Superior, a distance of 2,260 statute miles. The distance to Duluth is 2,384 miles. From the straits of Belle Isle, at the mouth of the St. Lawrence, to Montreal the distance is 986 miles. From Quebec to Montreal the distance is 160 miles. Owing to the shallowness of the waters on a portion of the river between these two places, particularly through Lake St. Peter, vessels drawing more than from 10 to 12 ft. were formerly barred from passage for the greater part of the season of navigation. In 1826 the question of deepening the channel was first definitely mooted, but it was not until 1844 that any dredging operations were begun. In that year the deepening of a new straight channel was commenced, but the scheme was abandoned in 1847. In 1851 the deepening of the present channel was begun. At that time the depth of the channel at low water was 10 ft. 6 in. By the year 1869 this depth had been increased to 20 ft., by 1882 to 25 ft., and by the close of 1888 the depth of $27\frac{1}{2}$ ft. at low water was attained for a distance of 108 miles from Montreal to a point within tidal influence. This work is now being continued by the government of Canada, which in 1888 assumed the indebtedness incurred. The channel has a minimum width of 300 ft., extending to 550 ft. at points of curvature. It is lighted and buoyed.

Montreal has by this work been placed at the head of ocean navigation and here the canal systems of the river St. Lawrence begin, overcoming the various rapids by which the river channel upward is obstructed, and giving access, through the St. Lawrence canals, the Welland canal, the great lakes and the Sault Ste. Marie canal to the head of Lake Superior. The difference in level between the point on the St. Lawrence near Three Rivers where tidal influence ceases and Lake Superior is about 600 ft. The total lockage (or height directly overcome by locks) from tide water to Lake Superior is 551 ft. The number of locks through which a vessel would pass in its passage from Montreal, at the head of ocean navigation, to the head of Lake Superior, is forty-seven.

It is important to note that the enlargement of the canals on the main route between Montreal and Lake Erie comprises locks of the

following minimum dimensions: Length 270 ft., width 45 ft., depth of water on sills 14 ft. The length of the vessels to be accommodated is limited to 256 ft. At Farran's point in the canal of that name the lock is 800 ft. long. A similar lock is built at Iroquois on the Galops canal, the object being to pass a full tow at one lockage.

Leading particulars of the Lachine canal are as follows: Length, $8\frac{1}{2}$ statute miles; number of locks, five; dimensions of locks, 270 ft. by 45 ft.; total rise or lockage, 45 ft.; depth of water on sills at two locks, 18 ft., and at three locks, 14 ft.; average width of new canal, 150 ft. The old lift locks, 200 ft. by 45 ft., are still available with 9 ft. of water on mitre sills. The depth of the canal between locks is now adapted to vessels of 14 ft. draught. The canal consists of one channel, with two distinct system of locks, the old and the enlarged. There are two lock entrances at each end. The canal extends from the city of Montreal to the town of Lachine, overcoming the St. Louis rapids, the first of a series of rapids which bars the ascent of the river St. Lawrence.

Dimensions of the Soulanges canal are: Length of canal, 14 miles; number of locks, lift four, guard one; dimensions of locks, 280 ft. by 45 ft.; total rise on lockage, 84 ft.; depth of water on sills, 15 ft.; breadth of canal at bottom, 100 ft.; breadth of canal at water surface, 164 ft.; number of arc lights, 219 of 2,000 candle power each. The canal extends from Cascade point to Coteau landing, overcoming the Cascade rapids, Cedar rapids and Coteau rapids.

Dimensions of the Cornwall canal are: Length of canal, 11 miles; number of locks, 6; dimensions of locks, 270 ft. by 45 ft.; total rise or lockage, 48 ft.; depth of water on sills, 14 ft.; breadth of canal at bottom, 100 ft.; breadth of canal at water surface, 164 ft. The old lift locks, 200 ft. by 45 ft., are also available with 9 ft. of water on mitre sills. From the head of the Soulanges to the foot of the Cornwall canal there is a stretch through Lake St. Francis of $32\frac{3}{4}$ miles, which is being made navigable for vessels drawing 14 ft. The Cornwall canal extends past the Long Sault rapids from the town of Cornwall to Dickenson's landing.

The Farran's point, Rapide plat and Galops canals are collectively known as the Williamsburg canals. Dimensions of the Farran's point canal are: Length of canal, one mile; number of locks, one; new lock, 800 ft. by 45 ft.; old lock, 200 ft. by 45 ft.; total rise or lockage, $3\frac{1}{2}$ ft.; depth of water on sills of new lock at ordinary water level, 14 ft.; depth of water on sills of old lock at ordinary water level, 9 ft.; breadth of canal at bottom, 90 ft.; breadth of canal at water surface, 154 ft. From the head of Cornwall canal to the foot of Farran's point canal the distance on the St. Lawrence river is 5 miles. The latter canal enables vessels ascending the river to avoid the Farran's point rapids passing the full tow at one lockage. Descending vessels run the rapids with ease and safety.

Particulars of the Rapide plat canal are as follows: Length of canal, 3 2-3 miles; number of locks, two; dimensions of locks, 270 ft. by 45 ft.; total rise or lockage, 11½ ft.; depth of water on sills, 14 ft.; breadth of canal at bottom, 80 ft.; breadth of canal at surface of water, 152 ft. The old lift lock, 200 ft. by 45 ft., is also available with 9 ft. of water on mitre sills. From the head of Farran's point canal to the foot of Rapide plat canal there is a navigable stretch of 10½ miles. This canal was formed to enable vessels ascending the river to pass the rapids at that place. Descending vessels run the rapids safely.

Dimensions of the Galops canal are: Length of canal, 7½ miles; number of locks, three; dimensions of locks (two), 270 ft. by 45 ft., (one) 800 ft. by 45 ft.; total rise or lockage, 15½ ft.; depth of water on sills, 14 ft.; breadth of canal at bottom, 80 ft.; breadth of canal at surface of water, 144 ft. From the head of Rapide plat canal to Iroquois, at the foot of the Galops canal, the St. Lawrence is navigable 4½ miles. This canal enables vessels to overcome the rapids at Pointe aux Iroquois, Point Cardinal and the Galops.

Dimensions of the Murray canal (extending through the Isthmus of Murray, giving connection westward between the head waters of the bay of Quinte and Lake Ontario, and thus enabling vessels to avoid the open lake navigation), are: Length between eastern and western pier-heads, 5½ miles; breadth at bottom, 80 ft.; breadth at water surface, 120 ft.; depth below lowest known lake level, 11 ft.; no locks.

The Welland canal is too well known to require extended description. Its main line runs from Port Dalhousie, Lake Ontario, to Port Colborne, Lake Erie. The Welland canal has two entrances from Lake Ontario at Port Dalhousie, one for the old and the other for the new canal. From Port Dalhousie to Allanburgh, 11¾ miles, there are two distinct lines of canal in operation, the old line and the enlarged or new line. From Allanburgh to Port Colborne, a distance of 15 miles, there is only one channel, the old canal having been enlarged.

It is but just to state that considering its population and resources Canada has done vastly more for its waterways than has the United States. The sum of \$75,000,000 is mentioned as a conservative estimate of the money which the Dominion government spent in its canals before a dollar's worth of commerce could adequately utilize them. No commercial enterprise in the world can tell a similar story of faith and confidence in itself. The placing of 14 ft. as the maximum depth for the canals seems strange in the light of today; but it must be remembered that when the system of canals was designed it was supposed that a 14-ft. waterway would be ample for all time upon the great lakes. The depth which at that time vessel men were looking forward to upon the lakes was a uniform one of 12 ft. The great steel carrier was not even a dream then of the most daring of minds.

Azimuths—A Correction of Compass Courses.

(Contributed by Mr. Arthur Dovalé, nautical expert, Cleveland.)

The United States hydrographic office recommends the use of the azimuth tables to ascertain the error of the compass as a handy method and one that will assist in relieving the masters of vessels of great responsibility. The only book absolutely necessary for working azimuths are the "Azimuth Tables" (H. O. No. 106, price 50 cents). It is also necessary to have the equation of time and the declination, which can be found in the weekly "Notices to Mariners." These notices are distributed free of charge by the branch hydrographic offices. Better than these notices, however, for working azimuths is a copy of "The Sun's Apparent Declination and Equation of Time" (H. O. No. 118, price 10 cents), as it is good for a whole year, and also has tables for reducing standard time to local mean time. The following examples will cover all cases required on the great lakes:

EXAMPLE NO. 1.

We will say that we are off Duluth on August 4, 1901, in latitude $46^{\circ} 45' N.$, longitude $92^{\circ} 7' W.$, variation 8° Ely. (The foregoing can all be found from a chart). Ship heading E. x N. We then take the bearing of the sun (by the same compass as we took the ship's heading) to be $N. 78^{\circ} 30' E.$ and note the exact time by watch, set at say 90th meridian (central standard) time and find it to be 7h. 38m., a. m.

Time of observation	7h 38m 00s (90th meridian)
Correction for longitude	— 8 28 (from table III, H. O. No. 118)
Local mean time	7 29 32
Equation of time	— 5 55 (from table I, H. O. No. 118)
Local apparent time	7 23 37

From table I. (H. O. No. 118) we find that the sun's declination for August 4 is $N. 17^{\circ} +$, which is of the same name as our latitude, therefore, we look for latitude 47° (as $46^{\circ} 45'$ is nearer 47° than 46°) and find it on page 107 (H. O. No. 106); then under the column marked 17° and opposite 7h 30m, we find the sun's true bearing

$= N. 94^{\circ} 25' E.$, and opposite 7h 20m, we find the sun's true bearing $= N. 92^{\circ} 32' E.$

Difference for 10 minutes $= 1^{\circ} 53' = 60' + 53' = 113'$

Difference for 1 minute $= 11.3'$

Difference for $3\frac{1}{2}$ minutes $= 11.3' \times 3.5 = 40'$

Sun's true bearing for 7h 20m $= N. 92^{\circ} 32' E.$

Correction for $3\frac{1}{2}$ minutes $= + 40'$

Sun's true bearing for 7h 23m 37s $= N. 93^{\circ} 12' E.$

Variation $= - 8^{\circ}$ Ely. (See note "A")

Sun's magnetic bearing $= N. 85^{\circ} 12' E.$

Sun's compass bearing $= N. 78^{\circ} 30' E.$

Deviation for E. x N. course $= 6^{\circ} 42' Ely.$ (See note "B")

Note "A"—Since the magnetic north is 8° east of the true north, the sun's magnetic bearing must be 8° less than its true bearing.

Note "B"—Since there are a less number of degrees and minutes from the sun's bearing to the compass north than from the sun's bearing to the magnetic north the compass north must be to the east of the magnetic north; hence the easterly deviation. Had the compass bearing of the sun been N. 92° 18' E. then the compass north would have been 7° 06' W. of the magnetic north and we would have had 7° 06' W. deviation.

EXAMPLE NO. 2.

Off Cleveland, O., Dec. 31, 1901.
Latitude, 41° 30' N., longitude, 81° 40' W., variation, 2° 11' Wly.
Ship heading, S. S. W.; sun's bearing, N. 129° 36' W.; time, 3h. 20m p. m. (90th meridian).

Time of observation 3h 20 00s p.m.
Cor. for long.....+ 33 20 (from table III, H. O. No. 118)

L. M. T.3 53 20
Eq. of time— 2 57 (from table I, H. O. No. 118)

L. A. T.3h 50m 23s

From table I, (H. O. No. 118) we find that the sun's declination for Dec. 31 is S. 23° +, which is of opposite name to our latitude; therefore we look on page 179, or 180, of H. O. No. 106, and in the column marked 23° + at the top, and opposite 3h 50m, we find S. T. B.=N. 128° 35' W.
" " 4h 00m, we find S. T. B.=N. 126° 49' W.

Diff. for 10 minutes	=	1° 46'	=60'+46'=106'
Diff. for 1 minute	=		10.6'
Diff. for 23 sec., or 2-5 minutes	=	10.6x2-5=4'	
so that we have, S. T. B. for 3h 50m	=	N. 128° 35' W.	
Cor. for 23s	=	— 4'	
S. T. B. for 3h 50m 23s	=	N. 128° 31' W.	
Variation (see Note A)	=	— 2 11 Wly.	
Sun's mag. bearing	=	N. 126° 20' W.	
Sun's comp. bearing	=	N. 129° 36' W.	
Dev. for course S. S. W.	=	3° 16' Ely.	

Note "A"—Since the magnetic north is 2° 11' west of the true north, the sun's magnetic bearing must be 2° 11' less than its true bearing.

Note "B"—Since there are a greater number of degrees and minutes from the sun to the compass north, than from the sun to the magnetic north, we have easterly deviation.

Conversion of Geographical or Statute Miles into Nautical or Sea Miles.

STATUTE MILE, 5,280 FT.; NAUTICAL MILE, 6,080 FT.

(Prepared by Capt. Henry Leisk, Milwaukee.)

Geographical or statute mile.	Nautical or sea mile.	Geographical or statute mile.	Nautical or sea mile.	Geographical or statute mile.	Nautical or sea mile.	Geographical or statute mile.	Nautical or sea mile.
1.00	0.868	8.00	6.947	15.00	13.026	22.00	29.105
1.25	1.085	8.25	7.164	15.25	13.243	22.25	19.322
1.50	1.302	8.50	7.381	15.50	13.460	22.50	19.539
1.75	1.519	8.75	7.598	15.75	13.677	22.75	19.756
2.00	1.736	9.00	7.815	16.00	13.894	23.00	19.973
2.25	1.953	9.25	8.032	16.25	14.111	23.25	20.190
2.50	2.171	9.50	8.250	16.50	14.328	23.50	20.407
2.75	2.388	9.75	8.467	16.75	14.546	23.75	20.625
3.00	2.605	10.00	8.684	17.00	14.763	24.00	20.842
3.25	2.822	10.25	8.901	17.25	14.980	24.25	21.059
3.50	3.039	10.50	9.118	17.50	15.197	24.50	21.276
3.75	3.256	10.75	9.335	17.75	15.414	24.75	21.493
4.00	3.473	11.00	9.552	18.00	15.631	25.00	21.710
4.25	3.690	11.25	9.769	18.25	15.848	25.25	21.927
4.50	3.907	11.50	9.986	18.50	16.065	25.50	22.144
4.75	4.125	11.75	10.203	18.75	16.282	25.75	22.361
5.00	4.342	12.00	10.421	19.00	16.500	26.00	22.578
5.25	4.559	12.25	10.638	19.25	16.717	26.25	22.796
5.50	4.776	12.50	10.855	19.50	16.934	26.50	23.013
5.75	4.993	12.75	11.072	19.75	17.151	26.75	23.230
6.00	5.210	13.00	11.289	20.00	17.368	27.00	23.447
6.25	5.427	13.25	11.506	20.25	17.585	27.25	23.664
6.50	5.644	13.50	11.723	20.50	17.802	27.50	23.881
6.75	5.861	13.75	11.940	20.75	18.019	27.75	24.098
7.00	6.078	14.00	12.157	21.00	18.236	28.00	24.315
7.25	6.296	14.25	12.375	21.25	18.453	28.25	24.532
7.50	6.513	14.50	12.592	21.50	18.671	28.50	24.750
7.75	6.730	14.75	12.809	21.75	18.888	29.00	25.184

Conversion of Nautical or Sea Miles into Geographical or Statute Miles.

NAUTICAL MILE, 6,080 FT.; STATUTE MILE, 5,280 FT.

(Prepared by Capt. Henry Leisk, Milwaukee.)

Nautical or sea mile.	Geographical or statute mile.	Nautical or sea mile.	Geographical or statute mile.	Nautical or sea mile.	Geographical or statute mile.	Nautical or sea mile.	Geographical or statute mile.
1.00	1.151	7.00	8.060	13.00	14.969	19.00	21.878
1.25	1.439	7.25	8.348	13.25	15.257	19.25	22.166
1.50	1.729	7.50	8.636	13.50	15.545	19.50	22.454
1.75	2.015	7.75	8.924	13.75	15.833	19.75	22.742
2.00	2.303	8.00	9.212	14.00	16.121	20.00	23.030
2.25	2.590	8.25	9.500	14.25	16.409	20.25	23.318
2.50	2.878	8.50	9.787	14.50	16.696	20.50	23.606
2.75	3.166	8.75	10.075	14.75	16.984	20.75	23.893
3.00	3.454	9.00	10.393	15.00	17.272	21.00	24.181
3.25	3.742	9.25	10.675	15.25	17.560	21.25	24.469
3.50	4.230	9.50	10.939	15.50	17.848	21.50	24.757
3.75	4.318	9.75	11.227	15.75	18.136	21.75	25.045
4.00	4.606	10.00	11.515	16.00	18.424	22.00	25.333
4.25	4.893	10.25	11.803	16.25	18.712	22.25	25.621
4.50	5.181	10.50	12.090	16.50	18.999	22.50	25.909
4.75	5.469	10.75	12.378	16.75	19.287	22.75	26.196
5.00	5.757	11.00	12.666	17.00	19.575	23.00	26.484
5.25	6.045	11.25	12.954	17.25	19.863	23.25	26.772
5.50	6.333	11.50	13.242	17.50	20.151	23.50	27.060
5.75	6.621	11.75	13.530	17.75	20.439	23.75	27.348
6.00	6.909	12.00	13.818	18.00	20.727	24.00	27.636
6.25	7.196	12.25	14.106	18.25	21.015	24.25	27.924
6.50	7.484	12.50	14.393	18.50	21.303	24.50	28.212
6.75	7.772	12.75	14.681	18.75	21.590	25.00	28.787

United States Hydrographic Service.

The United States hydrographic office, navy department, Washington, D. C., maintains branch offices on the great lakes as follows: Buffalo, Guaranty building; Cleveland, The Arcade; Chicago, Masonic Temple; Sault Ste. Marie, News building; Duluth, Torrey building.

Masters of vessels are invited to call on arrival in port. Nautical charts and sailing directions on hand for inspection by the shipping public. Information affecting nautical charts regularly received. Nautical inquiries are investigated and answered. "Notices to Mariners," "U. S. Light Lists," and other periodical publications are distributed. Barometers are compared. All services are free.

Captains are earnestly requested to co-operate with the branch hydrographic offices in their work of collecting and distributing information useful to lake mariners, by sending to them reports of buoys adrift, lights or gas buoys not lighted, shoals, wrecks, or any other dangers to navigation.

Wind Signals on Lake Superior.

Winds expected for the western end of Lake Superior are announced by whistle signals of the United States weather bureau. Signals are blown daily at 10 a. m. by the whistle of elevator "E," Duluth, Minn. The Imperial Mills, Duluth, Minn., also blow these signals at 10 p. m. during the navigation season, whenever the information then at hand is of special importance to vesselmen.

Force of wind.—Light (1 to 5 miles per hour), 1 long whistle; Fresh (6 to 14 miles per hour), 2 long whistles; brisk (15 to 24 miles per hour), 3 long whistles; high (25 miles and upwards per hour), 4 long whistles; north, northeast, east, 1 short whistle; southeast south, 2 short whistles; southwest, west, northwest, 3 short whistles; variable 4 short whistles.

Duration of whistles: Short, 2 seconds; long, 6 seconds.

Examples:—For "brisk northwest winds" there is blown first a prolonged "attention" whistle; then three long and three short whistles. For "light northeast shifting to brisk westerly winds" the "attention" whistle is blown first and then one long, one short, three long, three short.

Bridge Signals.

BUFFALO, N. Y.

Whistle Signal.

Michigan street bridges in the creek and Blackwell canal.....3 blasts
Ohio basin bridge, Ohio street bridge in upper creek and
bridge at Lehigh Valley, upper Blackwell canal.....3 long, 3 short.
International bridge, Niagara river1 long.
Bridge for Evans slip3 blasts.

ASHTABULA, O.

Ashtabula bridge1 long.

CLEVELAND, O.

L. S. & M. S. Ry. bridge.....	1 long 2 short.
Old River Bed bridges	{ 1 long 1 short.
	{ 1 long 1 short.
Main street bridge	2 blasts.
Superior street viaduct	3 blasts.
Valley Ry. bridge and all others above it in the main river.....	4 blasts.

LORAIN, O.

City bridge	1 long 2 short.
N. Y. C. & St. L. Ry. bridge.....	1 long 2 short.

TOLEDO, O.

All bridges in main river.....	3 blasts.
Dayton slip bridge	4 blasts.
Swan Creek—	
Perry street bridge	3 blasts.
Lafayette street bridge	2 blasts.
St. Clair street bridge.....	1 long 2 short.
Erie street bridge	3 long.
Clover Leaf Ry. bridge.....	3 long.

DULUTH, MINN.

Duluth-Superior bridge	3 long.
Northern Pacific bridge, both draws.....	3 long.
Howard pocket bridge, near dry dock.....	3 long 2 short.
St. Paul & Duluth bridge.....	3 long 3 short.

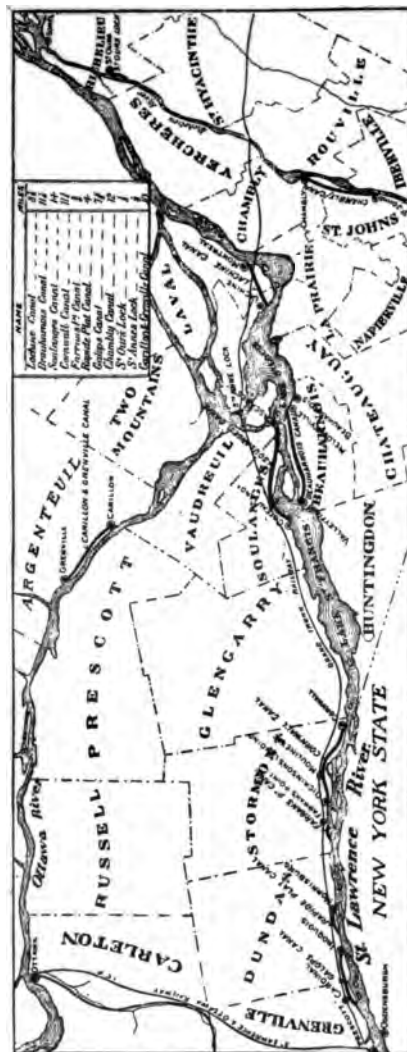
CHICAGO, ILL.

Three whistles is the signal for all bridges in Chicago and South Chicago excepting Kinzie street bridge, which is the first bridge after turning the fork to go up the North Branch. For this bridge four whistles are blown. The same signal (four whistles) is also blown for the Ashland avenue bridge in the South Branch when going to the right of the forks to Bridgeport; when turning towards the South Fork, or the left, five whistles are blown for Fuller street bridge.

MILWAUKEE, WIS.

In Milwaukee 3 short whistles is the general bridge signal. There is excepted from this the bridge across the Menominee river at the foot of West Water street, and also the railroad bridge about a half block east of the West Water street bridge, as well as the bridge of the Chicago & Northwestern company across the Kinnickinnic, between Kinnickinnic avenue and Clinton street. For these exceptions the signal is four short blasts. Another exception is the Point street bridge, entrance to Green Bay canal, for which the signal is two short blasts.

Canada's St. Lawrence Route Canals.



Between Lake Erie and the sea there are seven Dominion canals, exclusive of the Beauharnois. They are the Welland, Galops, Rapide Plat, Farran's Point, Cornwall, Soulanges and Lachine. Their aggregate length is 70½ miles; the number of locks is fifty-three and the total lockage (or height directly overcome by locks) is 533 feet and 3 inches. The Welland canal, which has for several years past been of 14 feet navigation, and which extends from Port Colborne on Lake Erie to Port Dalhousie on Lake Ontario, is not shown in the illustration. The general scheme of canal enlargement now completed affected all the canals. None of the locks had the required depth and none had the desired dimensions of 270 feet in length and 45 feet in width. With the completion of the Soulanges canal the desired end was accomplished.

Table for Converting Compass Courses into Degrees, Minutes and Seconds.

(A FAVOR FROM FRANK HENEIGH, NAUTICAL EXPERT, DULUTH.)

Points.	Number.	Degrees.	Number.	Points.
North.	0	° 0 0 24 45 07 37 01 52 15 37 11 15 00 22 03 45 23 07 16 52 30 41 05 37 22 30 00 22 54 18 45 26 43 07 30 28 07 52 31 15 37 32 20 37 33 45 00 22 35 09 45 36 33 45 37 58 07 39 22 46 52 42 11 15 43 35	0	South.
N. by E.....N. by W....	1	° 1 12 14 16 18 19 21 22 23 24 25 26 28 29 30 31 32 33 35 36 38 39 40 42 43	1	S. by W.....S. by E.
	1/4	° 2 24 48 30 14 13 34 03 54 30 22 22 30 00 22 54 18 45 26 43 07 30 28 07 52 31 15 37 32 20 37 33 45 00 22 35 09 45 36 33 45 37 58 07 39 22 46 52 42 11 15 43 35	1/4	
	1/2	° 3 36 72 15 21 19 49 39 41 05 37 22 30 00 22 54 18 45 26 43 07 30 28 07 52 31 15 37 32 20 37 33 45 00 22 35 09 45 36 33 45 37 58 07 39 22 46 52 42 11 15 43 35	1/2	
	3/4	° 4 48 96 30 27 26 33 58 07 39 22 46 52 42 11 15 43 35 09 45 36 33 45 37 58 07 39 22 46 52 42 11 15 43 35	3/4	
NNE.....N NW...	2	° 5 60 120 45 41 05 37 22 30 00 22 54 18 45 26 43 07 30 28 07 52 31 15 37 32 20 37 33 45 00 22 35 09 45 36 33 45 37 58 07 39 22 46 52 42 11 15 43 35	2	SSW.....SSE.
	1/4	° 6 72 144 30 14 13 34 03 54 30 22 22 30 00 22 54 18 45 26 43 07 30 28 07 52 31 15 37 32 20 37 33 45 00 22 35 09 45 36 33 45 37 58 07 39 22 46 52 42 11 15 43 35	1/4	
	1/2	° 7 144 216 45 41 05 37 22 30 00 22 54 18 45 26 43 07 30 28 07 52 31 15 37 32 20 37 33 45 00 22 35 09 45 36 33 45 37 58 07 39 22 46 52 42 11 15 43 35	1/2	
	3/4	° 8 216 288 30 27 26 33 58 07 39 22 46 52 42 11 15 43 35 09 45 36 33 45 37 58 07 39 22 46 52 42 11 15 43 35	3/4	
NNE. by N.NW. by N...	3	° 9 288 360 15 21 19 49 39 41 05 37 22 30 00 22 54 18 45 26 43 07 30 28 07 52 31 15 37 32 20 37 33 45 00 22 35 09 45 36 33 45 37 58 07 39 22 46 52 42 11 15 43 35	3	SW. by S.....SE. by S.
	1/4	° 10 360 432 45 41 05 37 22 30 00 22 54 18 45 26 43 07 30 28 07 52 31 15 37 32 20 37 33 45 00 22 35 09 45 36 33 45 37 58 07 39 22 46 52 42 11 15 43 35	1/4	
	1/2	° 11 432 504 30 14 13 34 03 54 30 22 22 30 00 22 54 18 45 26 43 07 30 28 07 52 31 15 37 32 20 37 33 45 00 22 35 09 45 36 33 45 37 58 07 39 22 46 52 42 11 15 43 35	1/2	
	3/4	° 12 504 576 15 21 19 49 39 41 05 37 22 30 00 22 54 18 45 26 43 07 30 28 07 52 31 15 37 32 20 37 33 45 00 22 35 09 45 36 33 45 37 58 07 39 22 46 52 42 11 15 43 35	3/4	

NE.....NW...	4	45	00	00	00	1/4	4	SW.....SE.
		46	24	45	22	%		
		47	13	07	45	%		
		48	37	30	00	%		
		49	50	01	52	%		
		50	01	15	15	%		
		51	26	37	00	%		
		52	54	50	22	%		
		53	56	13	45	%		
		54	57	39	07	%		
		55	60	03	22	%		
		56	61	28	45	%		
		57	63	16	00	%		
		58	64	52	37	%		
		59	66	41	15	%		
		60	67	05	37	%		
		61	68	30	00	%		
		62	69	54	22	%		
		63	70	18	45	%		
		64	71	43	07	%		
		65	72	07	30	%		
		66	73	31	52	%		
		67	74	51	15	%		
		68	75	06	37	%		
		69	77	20	00	%		
		70	78	45	22	%		
		71	79	09	45	%		
		72	80	33	07	%		
		73	81	58	30	%		
		74	82	33	52	%		
		75	83	46	15	%		
		76	84	11	37	%		
		77	85	35	00	%		
		78	86	11	37	%		
		79	87	35	00	%		
		80	88	11	37	%		
		81	89	35	00	%		
		82	90	35	00	%		
		83	91	35	00	%		
		84	92	35	00	%		
		85	93	35	00	%		
		86	94	35	00	%		
		87	95	35	00	%		
		88	96	35	00	%		
		89	97	35	00	%		
		90	98	35	00	%		
		91	99	35	00	%		
		92	100	35	00	%		
		93	101	35	00	%		
		94	102	35	00	%		
		95	103	35	00	%		
		96	104	35	00	%		
		97	105	35	00	%		
		98	106	35	00	%		
		99	107	35	00	%		
		100	108	35	00	%		
		101	109	35	00	%		
		102	110	35	00	%		
		103	111	35	00	%		
		104	112	35	00	%		
		105	113	35	00	%		
		106	114	35	00	%		
		107	115	35	00	%		
		108	116	35	00	%		
		109	117	35	00	%		
		110	118	35	00	%		
		111	119	35	00	%		
		112	120	35	00	%		
		113	121	35	00	%		
		114	122	35	00	%		
		115	123	35	00	%		
		116	124	35	00	%		
		117	125	35	00	%		
		118	126	35	00	%		
		119	127	35	00	%		
		120	128	35	00	%		
		121	129	35	00	%		
		122	130	35	00	%		
		123	131	35	00	%		
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		260	268	35	00	%		
		261	269	35	00	%		
		262	270	35	00	%		
		26						

Strength of Chain Cable as Tested in 15-Fathom Lengths.

(from Capt. T. A. Ellery, Marysville, Mich.)

Size.	Required Testing Strain in Tons.	Weight of 100 Fathoms in Pounds.	Breaking Strain in Tons.		Mean Strain, Tons.
			Maximum.	Minimum.	
2¼	91½	27,216	130.3	121.8	125.9
2½	81¼	24,276	116.2	108.6	112.3
2	72	21,504	103.0	96.3	99.5
1¾	63¼	18,900	99.0	88.0	92.8
1½	55½	16,464	85.3	66.0	74.1
1¼	47½	14,196	75.0	59.5	66.5
1½	40½	12,096	65.5	54.5	59.5
1¾	34	10,164	53.6	44.4	48.5
1½	28½	8,400	42.8	35.3	38.5
1¼	22¼	6,804	33.0	27.0	29.5
1	18	5,376	27.3	22.0	24.3
¾	13¼	4,116	22.5	20.3	21.1
¾	10½	3,024	15.0	12.5	13.5
¾	8½	2,541	12.3	10.8	11.4
¾	7	2,100	9.9	9.4	9.5
1½	5½	1,701	.....	.....	.....
¾	4½	1,344	6.3	5.9	6.0

Strength of Plain Laid Rope of Three Strands.

(From Capt. T. A. Ellery, Marysville, Mich.)

Size.	Number of yarns in rope.	Weight of 100 fathoms in lbs.	Breaking strain in tons.		Mean, tons.
			Maximum.	Minimum.	
12	1173	2,940	45.5	35.	40.2
11½	1077	.....	41.7	32.	36.8
11	987	.....	38.2	29.3	33.7
10½	900	.....	34.9	26.7	30.8
10	816	2,136	31.7	24.2	27.9
9½	738	.....	28.6	21.8	25.2
9	660	1,712	25.7	19.6	22.6
8½	591	.....	23.	17.5	20.2
8	522	1,379	20.4	15.5	18.
7½	459	.....	18.	13.6	15.8
7	399	.....	15.8	11.8	13.8
6½	345	.....	13.7	10.2	12.
6	294	834	11.75	8.7	10.3
5½	249	712	9.8	7.3	8.7
5	204	.....	8.2	6.1	7.2
4½	168	413	6.7	5.	5.9
4	132	.....	5.3	4.	4.7
3½	102	.....	4.1	3.2	3.7
3	75	203	3.1	2.4	2.8
2½	54	.....	2.2	1.8	2.1
2	33	.....	1.5	1.3	1.4
1¾	27	.....	1.28	1.13	1.23
1½	21	.....	.90	.86	.88
1¼	15	.....	.60	.53	.56
1	12	.....	.58	.46	.51
¾	9	.....	.51	.42	.46
½	6	.....	.28	.28	.28

Dry Docks of the Great Lakes.

DIMENSIONS, DRAUGHT OF WATER, ETC.

(from the 1903 edition of the Blue Book of American Shipping. Copyrighted.)

PLACE.	NAME OF DOCK.	LENGTH.		WIDTH.		Depth over Sill.
		On blocks.	Over all.	Gate.	Top.	
		Feet.	Feet.	Feet.	Feet.	Feet.
Bay City, Mich.	James Davidson	290	315	42½	70	13
Buffalo, N. Y.	Buffalo Dry Dock Co., Dock No. 1	454	478	58	81	16
Buffalo, N. Y.	Buffalo Dry Dock Co., Dock No. 2	340	347	43½	65	19½
Buffalo, N. Y.	Buffalo Dry Dock Co., Dock No. 3	285	291	38	55½	11
Buffalo, N. Y.	Buffalo Dry Dock Co., Dock No. 4	372	379	45	65½	12½
Buffalo, N. Y.	O'Neill Dry Dock, floating dock	.....	126	.....	.....	13
Buffalo, N. Y.	O'Neill Dry Dock, floating dock	.....	101	.....	.....	9
Chicago, Ill.	Shipowners' Dry Dock Co. No. 1	480	500	60	84	16
Chicago, Ill.	Shipowners' Dry Dock Co. No. 2	300	320	50	80	14
Chicago, Ill.	Shipowners' Dry Dock Co. No. 3	160	180	40	70	10
Chicago, Ill.	Chicago Shipbuilding Co. (Calumet)	568	564	70	100	16
Cleveland, O.	American Shipbuilding Co., Dock No. 1	528	547	65	88	16½
Cleveland, O.	American Shipbuilding Co., Dock No. 2	430	450	45	55	16
Cleveland, O.	American Shipbuilding Co., Dock No. 3	340	360	50	55	16
Collingwood, Ont.	Collingwood Shipbuilding Co., Ltd.	513	517	54	60	16½
Detroit, Mich.	Detroit Shipbuilding Co., Dock No. 1	240	245	48	48	8
Detroit, Mich.	Detroit Shipbuilding Co., Dock No. 2	368	357	77	91	16
Detroit, Mich.	Detroit Shipbuilding Co., Dock No. 3	360	368	66	70	9
Detroit, Mich.	Detroit Shipbuilding Co., Dock No. 4	220	225	42	.....	31
Detroit, Mich.	Great Lakes Engineering Works	450	450	.....	95	31
Detroit, Mich.	Walter H. Oades Marine Ry.	186	.....	.....	.....	31
Duluth, Minn.	N. Grignon (Floating Dock)	60	.....	60	80	11 ft. 13
Kingston, Ont.	Davis Dry Dock Co.	180	180	31	40	8
Kingston, Ont.	Kingston Dry Dock Co.	180	180	31	31	8

Lorain, O.	American Shipbuilding Co.	550	600	60	101	18
Manitowoc, Wis.	Manitowoc Dry Dock Co., graving dock	340	340	45	55	13
Manitowoc, Wis.	Manitowoc Dry Dock Co., floating dock	120	120	35	40	10
Milwaukee, Wis.	Milwaukee Dry Dock Co., South dock	444	455	60½	85	13½
Milwaukee, Wis.	Milwaukee Dry Dock Co., West dock	312	320	45	75	12
Milwaukee, Wis.	Milwaukee Dry Dock Co., also have three sets of floating docks, length 20 ft., 130 ft. and 90 ft. respectively					
Montreal, Que.	A. Cantlin, Canada Marine Works	216	216	45	90	11
Montreal, Que.	A. Cantlin, Canada Marine Works	200	200	45	90	11
Ogdensburg, N. Y.	St. Lawrence Marine Ry. Co.	290	300	24	40	16
Oswego, N. Y.	Geo. Gobie, Ontario Dry Dock	150	165	36	50	11
Owen Sound, Ont.	Owen Sound Dry Dock & Ship Building Co., Ltd.	275	300	48½	63½	9
Port Dalhousie, Ont.	Muir Brothers (3 sections)	255	300	16	120	11
Port Huron, Mich.	Wolverine Dry Dock, F. J. Smith	198	238	36	33	15
Port Huron, Mich.	Thos. Dunford & Son .....	.....	400	62	95	16
Quebec, Que.	G. T. Davie & Sons No. 1.	234	235	41	.....	12
Quebec, Que.	G. T. Davie & Sons No. 2.	175	180	38	.....	12
Quebec, Que.	Ross & Co. ....	.....	322	.....	.....	.....
Quebec, Que.	A. Russell	223	.....	41½	.....	.....
Sandusky, O.	Sandusky, Dry Dock Co., Marine Railway	120	120	.....	12	8½
Sault Ste. Marie, Mich.	Hickler Bros., marine railway, 100 tons capacity	180	190	.....	40	{ 8½, 8½, 16 ft.
Sturgeon Bay, Wis.	Rieboldt, Wolter & Co., for sets of floating dry docks, 100, 150, 170 and 215 ft. length on blocks, respectively .....	.....	.....	.....	52	13
Superior, Wis.	Superior Shipbuilding Co., Dock No. 1	475	514	51½	92	15
Superior, Wis.	Superior Shipbuilding Co., Dock No. 2.	547	620	66½	106	18
Toledo, O.	A. Gilmore's Sons	230	235	37	55	9½
Toledo, O.	Toledo Marine Ry. (James Scanes, Mngt.)	100	100	30	30	10½
Toledo, O.	Craig Shipbuilding Co.	500	526	57	58	16
Toronto, Ont.	Mealer & Arnold, Marine Railway .....	.....	90	.....	.....	.....
West Bay City, Mich.	James Davidson	415	435	60	100	14½

Comparative Freight Rates—Grain per bushel, Iron Ore per gross ton.

RATE IN CENTS PER BUSHEL.	Corn, flax and rye, 56 pounds per bushel.	Wheat, 60 pounds per bushel.	Barley, 48 pounds per bushel.	Oats, 32 pounds per bushel.
EQUIVALENT IN IRON ORE PER GROSS TON.				
1	\$0 40	\$0 37 $\frac{1}{3}$	\$0 46 $\frac{2}{3}$	\$0 70
1 $\frac{1}{4}$	50	46 $\frac{2}{3}$	58 $\frac{1}{3}$	87 $\frac{1}{2}$
1 $\frac{1}{2}$	60	56	70	1 05
1 $\frac{3}{4}$	70	65 $\frac{1}{3}$	81 $\frac{2}{3}$	1 22 $\frac{1}{2}$
2	80	74 $\frac{2}{3}$	93 $\frac{1}{3}$	1 40
2 $\frac{1}{4}$	90	84	1 05	1 57 $\frac{1}{2}$
2 $\frac{1}{2}$	1 00	93 $\frac{1}{3}$	1 16 $\frac{2}{3}$	1 75
2 $\frac{3}{4}$	1 10	1 02 $\frac{2}{3}$	1 28 $\frac{1}{3}$	1 92 $\frac{1}{2}$
3	1 20	1 12	1 40	2 10
3 $\frac{1}{4}$	1 30	1 21 $\frac{1}{3}$	1 51 $\frac{2}{3}$	2 27 $\frac{1}{2}$
3 $\frac{1}{2}$	1 40	1 30 $\frac{2}{3}$	1 63 $\frac{1}{3}$	2 45
3 $\frac{3}{4}$	1 50	1 40	1 75	2 62 $\frac{1}{2}$
4	1 60	1 49 $\frac{1}{3}$	1 86 $\frac{2}{3}$	2 80
4 $\frac{1}{4}$	1 70	1 58 $\frac{2}{3}$	1 98 $\frac{1}{3}$	2 97 $\frac{1}{2}$
4 $\frac{1}{2}$	1 80	1 68	2 10	3 15
4 $\frac{3}{4}$	1 90	1 77 $\frac{1}{3}$	2 21 $\frac{2}{3}$	3 32 $\frac{1}{2}$
5	2 00	1 86 $\frac{2}{3}$	2 33 $\frac{1}{3}$	3 50
5 $\frac{1}{4}$	2 10	1 96	2 45	3 67 $\frac{1}{2}$
5 $\frac{1}{2}$	2 20	2 05 $\frac{1}{3}$	2 56 $\frac{2}{3}$	3 85
5 $\frac{3}{4}$	2 30	2 14 $\frac{2}{3}$	2 68 $\frac{1}{3}$	4 02 $\frac{1}{2}$
6	2 40	2 24	2 80	4 20
Number of bushels per gross ton.	40	37 $\frac{1}{3}$	46 $\frac{2}{3}$	70

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TABLE OF WAGES.

DAYS	\$15 00	\$20 00	\$25 00	\$30 00	\$35 00	\$40 00	\$45 00	\$50 00	\$55 00	\$60 00	\$65 00	\$70 00
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28	70 00	74 67	79 33	84 00	88 67	93 33	98 00	102 67	107 33	112 00	116 67
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Knots of All Kinds.

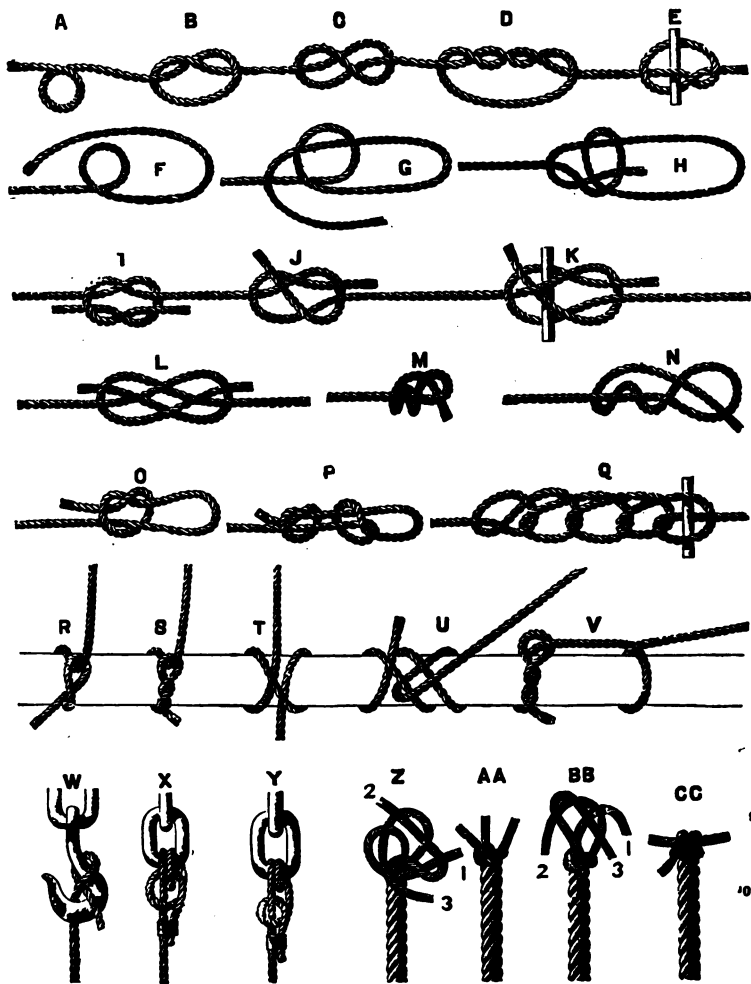
- | | |
|---------------------------------|---------------------------------|
| A. Bight of a rope. | P. Flemish loop. |
| B. Simple or overhand knot. | Q. Chain knot with toggle. |
| C. Figure 8 knot. | R. Half-hitch. |
| D. Double knot. | S. Timber-hitch. |
| E. Boat knot. | T. Clove-hitch. |
| F. Bowline, first step. | U. Rolling-hitch. |
| G. Bowline, second step. | V. Timber-hitch and half-hitch. |
| H. Bowline completed. | W. Blackwall-hitch. |
| I. Square or reef knot. | X. Fisherman's bend. |
| J. Sheet bend or weaver's knot. | Y. Round turn and half-hitch. |
| K. Sheet bend with a toggle. | Z. Wall knot commenced. |
| L. Carrick bend. | AA. Wall knot completed. |
| M. Stevedore knot completed. | BB. Wall knot crown commenced. |
| N. Stevedore knot commenced. | CC. Wall knot crown completed. |
| O. Slip knot. | |

The principle of a knot is that no two parts, which would move in the same direction if the rope were to slip, should lay along side of and touching each other.

The bowline is one of the most useful knots; it will not slip, and after being strained is easily untied. It should be tied with facility by everyone who handles rope. Commence by making a bight in the rope, then put the end through the bight and under the standing part as shown in G. then pass the end again through the bight, and haul tight.

The square or reef knot must not be mistaken for the "granny" knot that slips under a strain. Knots H, K and M are easily untied after being under strain. The knot M is useful when the rope passes through an eye and is held by the knot, as it will not slip and is easily untied after being strained.

The timber-hitch S, looks as though it would give way, but it will not; the greater the strain the tighter it will hold. The wall knot looks complicated, but it is easily made by proceeding as follows: Form a bight with strand 1 and pass the strand 2 around the end of it, and the strand 3 round the end of 2 and then through the bight of 1 as shown in the engraving Z. Haul the ends taut when the appearance is as shown in the engraving AA. The end of the strand 1 is now laid over the center of the knot, strand 2 laid over 1, and 3 over 2, when the end of 3 is passed through the bight of 1 as shown in the engraving BB. Haul all the strands taut as shown in the engraving CC.



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Vessel Time Card and Distance Table of Lake Ports.

BETWEEN LAKE ERIE PORTS AND DETROIT.

DETROIT TO	MILES.	SPEED PER HOUR. (TIME IS IN HOURS AND MINUTES.)											
		7 mi.	8 mi.	9 mi.	10 mi.	11 mi.	12 mi.	13 mi.	14 mi.	15 mi.	16 mi.	17 mi.	18 mi.
Buffalo -----	256	36:34	32	28:27	25:36	23:16	21:20	19:41	18:17	17:4	16	17:4	16
Erie -----	187	26:42	23:22	20:46	18:42	17	15:35	14:23	13:21	12:28	11:41	12:28	11:41
Conneaut -----	160	22:51	20	17:46	16	14:32	13:20	12:18	11:25	10:40	10	10:40	10
Ashtabula -----	146	20:50	18:15	16:14	14:36	13:16	12, 10	11:13	10:35	9:44	9:7	9:44	9:7
Fairport -----	121	17:17	15:7	13:26	12:6	11	10:5	9:18	8:38	8:4	7:33	8:4	7:33
Cleveland -----	105	15	13:7	11:40	10:30	9:32	8:45	8:4	7:30	7	6:33	7	6:33
Lorain -----	88	12:34	11	9:46	8:48	8	7:20	6:46	6:17	5:52	5:30	6:17	5:30
Huron -----	78	11:8	9:45	8:40	7:48	7:5	6:30	6	5:34	5:12	4:52	6:17	5:30
Sandusky -----	69	9:51	8:37	7:40	6:54	6:16	5:45	5:18	4:55	4:36	4:18	5:34	4:55
Toledo -----	56	8	7	6:13	5:36	5:5	4:40	4:18	4	3:44	3:30	4:36	4:18

BETWEEN DETROIT AND SAULT STE. MARIE AND MACKINAW.

DETROIT TO	MILES.	SPEED PER HOUR. (TIME IS IN HOURS AND MINUTES.)											
		7 mi.	8 mi.	9 mi.	10 mi.	11 mi.	12 mi.	13 mi.	14 mi.	15 mi.	16 mi.	17 mi.	18 mi.
Sault Ste. Marie -----	346	49:25	43:15	38:26	34:36	31:27	28:50	26:37	24:43	23:4	21:37	24:43	23:4
Mackinaw -----	311	44:25	38:53	34:33	31:6	28:16	25:55	23:55	22:13	20:44	19:26	22:13	20:44

BETWEEN MACKINAW AND LAKE MICHIGAN PORTS.

MACKINAW TO		SPEED PER HOUR. (TIME IS IN HOURS AND MINUTES.)											
		Miles.	7 mi.	8 mi.	9 mi.	10 mi.	11 mi.	12 mi.	13 mi.	14 mi.	15 mi.	16 mi.	
Esanaba-----	128	18: 17	16	14: 13	12: 48	11: 38	10: 40	9: 50	9: 8	8: 32	8		
Green Bay-----	198	28: 17	24: 45	22	19: 48	18	16: 30	15: 13	14: 8	13: 12	12: 22		
Manitowoc-----	194	27: 42	24: 15	21: 33	19: 24	17: 38	16: 10	14: 55	13: 51	12: 56	12: 7		
Sheboygan-----	214	30: 34	26: 45	23: 46	21: 24	19: 27	17: 50	16: 27	15: 17	14: 16	13: 22		
Milwaukee-----	258	36: 51	32: 15	28: 40	25: 48	23: 27	21: 30	19: 50	18: 25	17: 12	16: 7		
Racine-----	270	38: 34	33: 45	30	27	24: 32	22: 30	20: 46	19: 17	18	16: 52		
Chicago-----	323	46: 8	40: 22	35: 53	32: 18	29: 21	26: 55	24: 50	23: 4	21: 32	20: 11		
South Chicago-----	338	48: 17	42: 15	37: 33	33: 48	30: 43	28: 10	26	24: 8	22: 32	21: 7		

BETWEEN SAULT STE. MARIE AND LAKE SUPERIOR PORTS.

SPEED PER HOUR. (TIME IS IN HOURS AND MINUTES.)													
MILES	7 mi.	8 mi.	9 mi.	10 mi.	11 mi.	12 mi.	13 mi.	14 mi.	15 mi.	16 mi.			
Marquette-----	22: 34	19: 45	17: 33	15: 48	14: 21	13: 10	12: 9	11: 17	10: 32	9: 52			
Ashland—Bayfield—Washburn-----	49: 34	43: 22	38: 33	34: 42	31: 32	28: 55	26: 41	24: 47	23: 8	21: 41			
Ft. William—Port Arthur-----	38: 51	34	30: 14	27: 12	24: 43	22: 40	20: 55	19: 25	18: 8	17			
Two Harbors-----	53	46: 22	41: 13	37: 6	33: 43	30: 55	28: 32	26: 30	24: 44	23: 11			
Duluth-----	56: 17	49: 15	43: 46	39: 24	35: 49	32: 50	30: 18	28: 8	26: 16	24: 37			

BOAT.		SPEED.		BOAT.		SPEED.	
		Loaded.	Light.			Loaded.	Light.

Compass Courses and Distances.

The following tables of corrected compass courses and distances were prepared by Frank Morrison, compass adjuster, of Cleveland.

CORRECTED COMPASS COURSES.

LAKE ERIE	COURSE.	MILES.
Buffalo to Long Point.....	W by S $3\frac{3}{4}$ S	63 $\frac{3}{4}$
Long Point to Dummy.....	W by S $5\frac{1}{8}$ S	134
Buffalo to Erie.....	S W $3\frac{1}{4}$ W	76 $\frac{1}{2}$
Buffalo to Ashtabula.....	S W by W $1\frac{1}{4}$ W	117
Buffalo to Fairport.....	S W by W $1\frac{1}{2}$	143
Fairport to Cleveland.....	S W $1\frac{1}{2}$ W	29
Buffalo to Sandusky.....	S W by W $7\frac{1}{8}$ W	216
Erie to Dummy.....	W $3\frac{3}{4}$ S	126
Ashtabula to Dummy.....	W $1\frac{1}{4}$ S	88
Fairport to Dummy.....	W $3\frac{1}{8}$ N	62 $\frac{1}{2}$
Lorain to Dummy.....	N W by N	30
Sandusky to Dummy.....	N E by E $1\frac{1}{2}$ E	
LAKE HURON.	COURSE.	MILES.
Fort Gratiot to Sand Beach.....	N $5\frac{1}{8}$ W	58 $\frac{1}{2}$
Sand Beach to Thunder Bay.....	N by W $1\frac{1}{2}$ W	87 $\frac{1}{2}$
Thunder Bay to Presquile.....	N W by N $3\frac{1}{4}$ N	26 $\frac{1}{2}$
Presquile to Forty-Mile Point.....	N W by W $5\frac{1}{8}$ W	47
Thence Sheboygan Light.....	West	8
Presquile to Detour.....	N W by N $1\frac{1}{8}$ N	45
Detour to Cheboygan.....	S W $5\frac{1}{8}$ W	30
Detour to Bois Blanc.....	W by S $1\frac{1}{2}$ S	26 $\frac{1}{4}$
Thence to Straits of Mackinac.....	West	93 $\frac{1}{4}$
LAKE MICHIGAN.	COURSE.	MILES.
Waugoshance to North Manitou.....	S W $5\frac{1}{8}$ S	65 $\frac{1}{2}$
North Manitou to Point Betsey.....		30
Pt. Betsey to Chicago.....	S by W $1\frac{1}{4}$ W	207
Waugoshance to Milwaukee north of Manitou.....	S W $3\frac{1}{8}$ W	62
Thence.....	S W by S $5\frac{1}{8}$ S	177
Waugoshance to Poverty No. of Beavers	W $1\frac{1}{2}$ N	14
Thence.....	S W by W $1\frac{1}{2}$ W	58
Waugoshance to Beavers.....	S W $1\frac{1}{2}$ W	27
Beavers to Poverty.....	W $1\frac{1}{2}$ S	55
Chicago to the Door.....	N $3\frac{1}{8}$ E	238
Milwaukee to the Door.....	N by E $1\frac{1}{8}$ E	159 $\frac{1}{2}$

STRAITS OF MACKINAC.	COURSE.	MILES.
Cheboygan to Mackinac.....	N W by W $\frac{1}{4}$ W	19
Mackinaw Point to Waugoshance.....	West	18 $\frac{1}{2}$
LAKE SUPERIOR.	COURSE.	MILES.
Iroquois to Whitefish point.....	N W $\frac{3}{4}$ N	25 $\frac{1}{4}$
Whitefish point to Sable point.....	W $\frac{1}{2}$ S	56 $\frac{3}{4}$
Thence to Marquette.....	W by S $\frac{1}{4}$ S	60
Whitefish to Huron island.....	W $\frac{1}{4}$ N	145
Thence to Portage entrance.....	W $\frac{1}{2}$ S	20
Whitefish point to Copper Harbor...	W by N $\frac{5}{8}$ N	145 $\frac{1}{2}$
Copper Harbor to Eagle Harbor.....	West	7
Thence.....	W by S	8
Eagle Harbor to Devil Isle.....	W by S $\frac{1}{2}$ S	124
Devil Isle to Duluth.....	S W by W $\frac{1}{2}$ W	68
Eagle Harbor to Two Harbors.....	W by S $\frac{1}{2}$ S	168
Eagle Harbor to La Point.....	S W by W $\frac{1}{2}$ W	135

DISTANCES.

	Erie.	Ashtabula.	Fairport.	Cleveland.	Escanaba.	Milwaukee.	Chicago.	Marquette.	Ashland.	Two Harbors.	Duluth.
Buffalo	80	117	143	173	696	825	892	760	949	973	998
Erie.....		43	73	101	626	756	822	691	880	904	928
Ashtabula			27	56	585	715	781	650	839	863	887
Fairport.....				30	563	693	759	628	817	841	865
Cleveland.....					544	674	739	609	798	822	846
Escanaba						201	275	339	578	602	626
Milwaukee.....							83	519	708	732	755
Chicago								581	773	797	820
Marquette											279
Ashland.....										72	94
Two Harbors											27

Distances to Chicago are by south passage; if by middle passage add nine miles; if west passage add 17 miles to the distances to Lake Superior and Lake Erie ports.

Detroit River Postal Service.

**REGULATIONS AS PUBLISHED BY THE POSTMASTER OF THE
CITY OF DETROIT.**

It will be necessary for boats desiring to receive or deliver United States mail to enter the American channel, but only at the point of delivery.

The station will be located at the foot of First street, and deliveries will be made as nearly opposite that point as possible by a launch and small boats, the service being a continuous one day and night.

When telegrams from passing vessels are handled to the marine letter carrier, the amount of money accompanying same, in addition to the cost of the message, should be sufficient to attach a 2-cent postage stamp to same.

The delivery of telegrams may be had by instructing the telegraph company to attach a 2-cent stamp to the telegram, and, for immediate delivery, the addition of a special delivery stamp.

Mail for delivery from the marine postoffice should be directed to the "Marine Postoffice, Detroit, Mich.," and deliveries will be made throughout the entire period of navigation.

The signal to passing boats from the United States mail boat for delivery of mail will be one long whistle, one short whistle, one long whistle.

Signal for steam vessels wanting the mail boat to call for mail: One long whistle, one short whistle, one long whistle.

Signal for sailing vessels requiring mail boat: White flag by day, flashing bright light at night.

Signal from mail boat to large boats to check down: Three blasts of mocking bird whistle.

Signal from row boat belonging to mail boat when approaching vessels for delivery of mail: White flag in day time, swinging bright light at night.

IMPORTANT: Letters and packages will be received from passing boats by the marine carriers for registration and a receipt issued to the senders at the time, but registered letters and parcels can not be delivered to passing boats, as the necessary identification and receipts can not be had. The addressees of such letters and parcels are, however, duly notified by mail of their receipt, and that they will be held at the postoffice the usual time, subject to their order to forward or to deliver to some person ashore.

Money orders can also be procured through the marine carriers by following the instructions issued by the postmaster; if not provided with a copy of same, apply to the carrier.

Hints to Masters.

By Captain Henry Leisk of Lodge No. 6.

What is the difference between general and particular average? General average constitutes that which was voluntarily sacrificed for the benefit of whole. It must be a wilful and deliberate act of the master, whereby he can save something of greater value than that which was sacrificed.

Who pays general average?

The owner of the vessel, cargo and freight, each in proportion to the value saved.

Particular average constitutes that which was taken from you against your will and without your consent, such as masts or rigging being rolled overboard, or boats being washed away, or other articles being broken by the force of heavy seas breaking on board.

What is an average bond?

An agreement signed by the master, the consignee, or if no consignee, by all the merchants who have cargo on board, binding themselves to pay their proportion of their loss by general average. It should be signed before the cargo is delivered, otherwise the master loses his claim on the goods.

What is a protest?

It is the master and crews' sworn statement of the particular events of the voyage, explaining in full detail all the actual or anticipated loss or damage to vessel or cargo. The protest should be noted within twenty-four hours after arriving in port. It may be extended within six months from the date of noting.

What is a bill of lading?

A stamped receipt for cargo received on board the ship, signed by the master, owner or agent of the boat, in which the master binds himself and vessel under certain exceptions to deliver the cargo at the port of destination in like good order and condition as he received them, the consignee paying freight on receipt of the same.

Never sign a bill of lading before the goods are on board.

When the wind shifts against the sun
Trust it not for back it will run.
Whether in safety or in doubt
Always keep a good lookout.
In narrow channels with no room to turn,
Check her, stop her, go astern.

As long as you keep a green light open to a green light, or a red light open to a red light, no collision can happen between passing steamers.

The frequent and reckless use of "port helm" leads to collisions especially in narrow channels.

The passing signal given and answered in foggy weather, when vessels are invisible to each other, should be acted upon with great caution as it is yet to be determined whether the giving and answering of these signals are legalized by the act of February 8, 1895: see rules 23 and 26; also rule 14 which deals exclusively with fog signals.

Preserve discipline and order, and at all times. Let the dignity of your high position be recognized and respected. By your cool and dispassionate judgment and exemplary conduct you will win the love and admiration of your subordinates as well as your superiors, and will merit the name of gentleman, rather than that of bully.

If you should unfortunately meet with disaster do all that is within your power for the preservation of the lives and property entrusted to your care. No matter whether your vessel and cargo is insured or not, you are entrusted with its care and should exert every influence for the safety of the whole. You are the authorized agent of the owner and insurer alike and should work indefatigably for the interests of both. Never allow a wrecking master to supersede you. He is your servant if you permit him, you are not his servant. He is no gentleman if he offers you any insult.

The following is a useful method for finding the distance from a light-house or other well defined object when running along the land, and should be frequently used by the officer in charge of the deck, more especially in hazy or dark weather, when the position of the vessel cannot be exactly located. Young officers should bear in mind that the following rules and diagrams are put here especially for their benefit. They can practice these rules without chart, parallel, rulers or dividers, and can ascertain the ship's distance off all prominent points of land by giving a little attention to the course steered and distance run by taking an occasional bearing of any well known object as described by the following rule:

Take a bearing of the light-house or other object on shore, and note the time and see how many points it differs from the course you are steering. When this difference is doubled the distance run will be equal to the distance the ship is from the light-house, making due allowance for drift or currents.



EXAMPLE.

A ship is steering north, going 12 miles per hour; at 10:45 a. m. a light-house bore N. B. W. $\frac{1}{2}$ W.; difference between the bearing and course steered, $1\frac{1}{2}$ points. Kept on same course until it bore N. W. B. N., just double the difference in points; time 11:30 a. m.; distance run, 8 miles; distance off light-house, 8 miles.

The practical demonstration of this theory will be shown in the second and third example.

Had the course steered been a dangerous one you would have sufficient warning by placing the vessel's position on the chart and changing the vessel's course before you reached the dangerous spot.

Another useful example is the six point bearing which has about the same merit as the four point bearing.

EXAMPLE.

When running along the land you observe a light-house or point of land bearing three points before the beam. Run on the same course until it bears three points abaft the beam; the distance run in the interval will be the distance off the light-house at the time the last bearing was taken.

TO CORRECT THE COMPASS FOR VARIATION.

Course by compass given:

If variation is east allow to the right; if variation is west allow to the left will give true course.

True course given:

If variation is east allow to the left; if variation is west allow to the right will give magnetic course.

The Use of the Bearing Indicator.

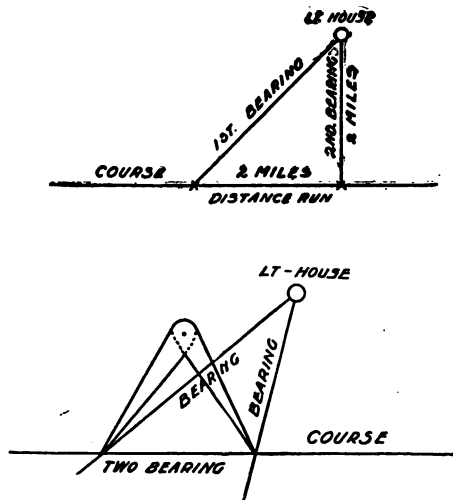
Presented with compliments of Buffalo Lodge.

- (1) How to find the error of the compass by the north star.
- (2) And by the rising and setting sun.
- (3) How to obtain the distance off from a light-house or other known objects by bearings known as the four-point bearing, the cross bearing or the two-bearing method which are thus explained.

(1) To obtain the error of the compass by a bearing of the north star. Set the dial of the indicator same as the pilot house compass, then point the sight-bar toward the north star and the indicator will show the error at once.

(2) By having the amplitude tables that have been published for the lake region, the error of the compass may be obtained by taking a bearing of the rising or setting sun.

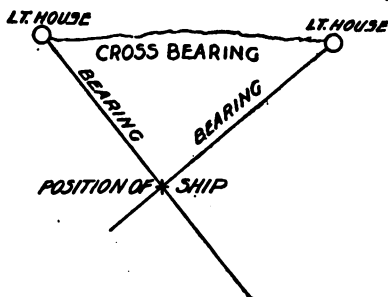
THE FOUR POINT BEARING.



The four-point bearing is the most simple and easy bearing to take that will give the exact distance off a light-house or other known object without having to use the chart, and is taken thus: For instance, your course is N. $\frac{1}{2}$ W., set the sight-bar at N. W. $\frac{1}{2}$ W., or four (4) points of the bow; when the light-house or other object comes in range, note the time or log, or both, then run till the light-house or other object is abreast or eight (8) points of the bow, and the distance run between bearings will be the exact distance to the light-house.

THE CROSS BEARING.

The cross bearing is a very simple, quick and correct bearing when there are two light-houses in view, and is taken thus: Take a bearing of each light-house and draw them on the chart, and where the lines cross is the position of the ship.



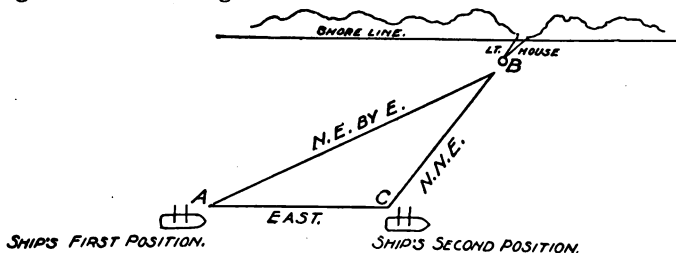
The two bearing method is taken thus: Take a bearing of light-house and draw the line on the chart, then run any distance, say a mile or two miles, then take another bearing, and draw it on the chart also, then set the dividers to the distance run, according to scale on chart, and draw them down the bearings on the course you have been steering till one point of the dividers rests on each line, and that will be the location of the ship at each bearing.

TO FIND A SHIP'S DISTANCE

FROM A POINT OF LAND OR A LIGHT, WITHOUT A TABLE, CHART OR DIVIDERS.

Submitted by Bro. F. B. Higgin.

The problem is of great service when sailing along any coast and is as follows: Suppose any well known shore light bears two or three points on either bow, then let the ship keep on her course till it bears the same number of points to the left of the first bearing; the distance the ship has run in the interval is her distance from the light at the time of taking the second bearing.



EXAMPLE.

Let A be a ship steering east; B a light bearing three points on the port bow, that is, N. E. by E. She proceeds on her course till the light bears three points to the left of N. E. by E. that is N. N. E., then C. B. is equal to C. A. by 6th proposition, first book of Euclid.

Lake Barometer—Wind Table.

By E. B. Garriott, Professor, Weather Bureau.

The following table presents in a form for ready reference the character of the wind and weather for the great lakes indicated by the barometer:

Height of Bar. (Lake Level.)	Direction of Wind.	Character of Weather and Wind Indicated.
29.40 to 29.60, and steady.	W.	Fair, slight changes in temperature, gentle to fresh winds.
29.40 to 29.60, rising.	W.	Fair, cooler, fresh west to northwest winds.
29.40 to 29.60, falling.	S.	Warmer, increasing southerly winds.
29.60, or above, falling rapidly.	E. to S.	Warmer, rain or snow within 36 hours, increasing E. to SE. winds.
29.60, or above, rising rapidly.	W. to N.	Cold and clear, quickly followed by warmer, variable winds.
29.60, or above, steady.	Variable.	No immediate change, but winds will go to south inside of 36 hours.
29.40, or below, falling slowly.	S. to E.	Rain or snow, increasing easterly winds.
29.40, or below, falling rapidly.	S. to E.	Rain or snow, high easterly winds, followed within 48 hours by clearing, colder, W. to NW. winds.
29.40, or below, rising slowly.	S. to W.	Clearing, colder, fresh to brisk W. to NW. winds.
29.20 or below, falling rapidly.	S. to E.	Severe storm of wind and rain and wind shifting to NW. within 36 hours.
29.20, or below, falling rapidly.	E. to N.	Severe northeaster, with heavy rain or snow and winds backing to NW.
29.20, or below, rising rapidly.	Going to W.	Clearing and colder; probably cold wave in winter.

Barometers should be compared with a standard every few months and will be set free of charge at any Weather Bureau office.

Rapid changes in the barometer indicate marked and early changes in the weather.

TABLE

For finding the Distance of an Object by Two Bearings, and the Distance between them.

Diff. between the Course and and Bearing.	DIFFERENCE BETWEEN THE COURSE AND THE FIRST BEARING.															
	POINTS OF THE COMPASS.															
	Points	2	2½	3	3½	4	4½	5	5½	6	6½	7	7½	8	8½	9
	3½	1.00														
	4	1.00														
	4½	0.81	1.23													
	5	0.69	1.00	1.45												
	5½	0.60	0.85	1.17	1.66											
	6	0.54	0.74	1.00	1.35	1.85										
	6½	0.49	0.67	0.88	1.14	1.50	2.02									
	7	0.46	0.61	0.79	1.00	1.27	1.64	2.17								
	7½	0.43	0.53	0.72	0.90	1.11	1.39	1.77	2.30							
	8	0.41	0.57	0.67	0.82	1.00	1.22	1.50	1.87	2.41						
	8½	0.40	0.51	0.63	0.76	0.92	1.09	1.31	1.58	1.96	2.50					
	9	0.39	0.49	0.60	0.72	0.85	1.00	1.18	1.39	1.66	2.03	2.56				
	9½	0.38	0.48	0.58	0.69	0.80	0.93	1.08	1.25	1.46	1.72	2.08	2.60			
	10	0.38	0.47	0.57	0.66	0.76	0.88	1.00	1.14	1.31	1.51	1.76	2.11	2.61		
	10½	0.38	0.47	0.56	0.65	0.74	0.84	0.94	1.06	1.19	1.35	1.53	1.79	2.12	2.60	
	11	0.39	0.47	0.56	0.64	0.72	0.81	0.90	1.00	1.11	1.24	1.39	1.57	1.80	2.11	2.56
	11½	0.40	0.48	0.56	0.63	0.71	0.79	0.87	0.95	1.05	1.15	1.27	1.41	1.58	1.79	2.08
	12	0.41	0.49	0.57	0.64	0.71	0.78	0.85	0.92	1.00	1.08	1.18	1.29	1.41	1.57	1.76
	12½	0.43	0.51	0.58	0.65	0.71	0.77	0.83	0.90	0.97	1.03	1.11	1.20	1.29	1.41	1.51

RULE 1st. To find the distance of the object when the last Bearing was taken, enter the table with the number of points at the top, contained between the first Bearing and the ship's head, and the number of points at the side, contained between the second Bearing and the ship's head. At the angle of meeting take out the tabular number, which multiply by the number of miles of Distance made good by the ship. The result is the Distance in miles off shore at the time the last Bearing was taken.

RULE 2d. To find the Distance when the first Bearing was observed, enter the table with the difference between these Bearings and 16 points; the second Bearing in this case must be taken from the top, and the first Bearing from the side column. Take out the tabular number corresponding and multiply it by the number of miles of Distance made good by the ship. The result is the Distance of the ship off shore at the time of the first Bearing.

RULE.

Multiply the distance run in the interval between the two bearings by the number found in the table under the difference between the course and first bearing, and opposite the difference between the course and second bearing. The product is the distance at the time the second bearing was taken.

EXAMPLE—A light when first seen bore W. N. W.; after running W. S. 16 miles it bore N. $\frac{1}{2}$ W. Required its distance when second bearing was taken.

Difference between course and first bearing, 3 points.

Difference between course and second bearing, 8 $\frac{1}{2}$ points.

Corresponding tabular number, 0.63, and 16 miles \times 0.63 = 10.08 miles, the distance required.

1.00

0.81 1.23

0.69 1.00 1.45

0.60 0.85 1.17 1.66

0.54 0.74 1.00 1.35 1.85

0.49 0.67 0.88 1.14 1.50 2.02

0.46 0.61 0.79 1.00 1.27 1.64 2.17

0.43 0.57 0.72 0.90 1.11 1.39 1.77 2.30

0.41 0.53 0.67 0.82 1.00 1.22 1.50 1.87 2.41

0.40 0.51 0.63 0.76 0.92 1.09 1.31 1.58 1.96 2.50

0.39 0.49 0.60 0.72 0.85 1.00 1.18 1.39 1.66 2.03 2.56

0.38 0.48 0.58 0.69 0.80 0.93 1.08 1.25 1.46 1.72 2.08 2.60

0.38 0.47 0.57 0.66 0.76 0.88 1.00 1.14 1.31 1.51 1.76 2.11 2.61

0.38 0.47 0.56 0.65 0.74 0.84 0.94 1.06 1.19 1.35 1.55 1.79 2.12 2.60

0.39 0.47 0.56 0.64 0.72 0.81 0.90 1.00 1.11 1.24 1.39 1.57 1.80 2.11 2.56

0.40 0.48 0.56 0.63 0.71 0.79 0.87 0.95 1.05 1.15 1.27 1.41 1.58 1.79 2.08 2.50

0.41 0.49 0.57 0.64 0.71 0.78 0.85 0.92 1.00 1.08 1.18 1.29 1.41 1.57 1.76 2.03 2.41

0.43 0.51 0.58 0.65 0.71 0.77 0.83 0.90 0.97 1.03 1.11 1.20 1.29 1.41 1.55 1.72 1.96 2.30

2

2 $\frac{1}{2}$

3

3 $\frac{1}{2}$

4

4 $\frac{1}{2}$

5

5 $\frac{1}{2}$

6

6 $\frac{1}{2}$

7

7 $\frac{1}{2}$

8

8 $\frac{1}{2}$

9

9 $\frac{1}{2}$

10

10 $\frac{1}{2}$

Difference between the course and the first bearing in points.

Compliments Chicago Lodge No. 3, Ship Masters' Association.

Pilot Rules of the Great Lakes

And their Connecting and Tributary Waters as far East as Montreal.

Adopted by the Board of Supervising Inspectors of Steam Vessels, and Approved by the Secretary of the Treasury.

To which is added, The Act of Congress approved February 8, 1895, entitled: "An Act to Regulate Navigation on the Great Lakes and their Connecting and Tributary Waters."

All the rules relating to steam vessels in passing each other contained in the Pilot Rules for the Great Lakes and their connecting and tributary waters as far east as Montreal shall also apply to all vessels propelled by gas, fluid, naphtha, or electric motors, and between any of such vessels and steam vessels, navigating these waters.

Rule I. When steamers are approaching each other "head and head," or nearly so, it shall be the duty of each steamer to pass to the right or port side of the other; and the pilot of either steamer may be first in determining to pursue this course, and thereupon shall give, as a signal of his intention, one short and distinct blast of his whistle, which the pilot of the other steamer shall answer promptly by a similar blast of his whistle, and thereupon such steamers shall pass to the right or port side of each other. But if the course of such steamers is so far on the starboard of each other as not to be considered by pilots as meeting "head and head," or nearly so, the pilot so first deciding shall immediately give two short and distinct blasts of his whistle, which the pilot of the other steamer shall answer promptly by two similar blasts of his whistle, and they shall pass to the left or on the starboard side of each other.

Provided, however, that in all narrow channels where there is a current and in the rivers Saint Mary, Saint Clair, Detroit, Niagara, and Saint Lawrence, when two steamers are meeting, the descending steamer shall have the right of way and shall, before the vessels shall have arrived within the distance of one-half mile of each other, give the signal necessary to indicate which side she elects to take.

Note.—In the night, steamers will be considered as meeting "head and head" so long as both the colored lights of each are in view of the other.

Rule II. When steamers are approaching each other in an oblique direction, as shown in the diagram of fourth and fifth situations, so as to involve risk of collision, the vessel which has the other on her own starboard side shall keep out of the way of the other, which latter vessel shall keep her course and speed. The steam vessel having the other on her starboard side indicates by one blast of her whistle her intention to direct her course to starboard, and two blasts if directing her course to port; to which the other shall promptly respond, but the giving and answering signals by a vessel required to keep her course shall not vary the duties and obligations of the respective vessels.

Rule III. If, when steamers are approaching each other, the pilot of either vessel fails to understand the course or intention of the other, whether from signals being given or answered erroneously or from other causes, the pilot so in doubt shall immediately signify the same by giving several (five or more) short and rapid blasts of the whistle; and if the vessels shall have approached within half a mile of each other, both shall be immediately slowed to a speed barely sufficient for steerageway until the proper signals are given, answered, and understood, or until the vessels shall have passed each other.

Vessels approaching each other from opposite directions are forbidden to use what has become technically known among pilots as "cross signals"—that is, answering one whistle with two, and answering two whistles with one. In all cases, and under all circumstances a pilot receiving either of the whistle signals provided in the rules, which for any reason he deems injudicious to comply with, instead of answering it with a cross signal, must at once observe the provisions of this rule.

Rule IV. Whenever a steamer is nearing a short bend or curve in the channel, where, from the height of the banks or other cause, a steamer approaching from the opposite direction can not be seen for a distance of half a mile, the pilot of such steamer, when he shall have arrived within half a mile of such curve or bend, shall give a signal by one long blast of the whistle, which signal shall be answered by a similar blast, given by the pilot of any approaching steamer that may be within hearing. Should such signal be so answered by a steamer upon the farther side of such bend, then the usual signals for meeting and passing shall immediately be given and answered; but if the first alarm signal of such pilot be not answered, he is to consider the channel clear and govern himself accordingly.

When boats are moved from their docks or berths, and other boats are liable to pass from any direction toward them, they shall give the same signal as in case of boats meeting at a bend; but immediately after clearing the berths so as to be fully in sight they shall be governed by Rule I.

Rule V. The signals, by the blowing of the whistles shall be given and answered by pilots in compliance with these rules, not only when meeting "head and head," or nearly so, but at all times when passing or meeting at a distance within a half mile of each other, and whether passing to the starboard or port.

Rule VI. When steamers are running in the same direction, and the pilot of a steamer which is astern shall desire to pass on the right or starboard hand of the steamer ahead, he shall give one short blast of the whistle as a signal of such desire and intention, and shall put his helm to port; or if he shall desire to pass on the left or port side of the steamer ahead, he shall give two short blasts of the whistle as a signal of such desire and intention, and shall put his helm to starboard, and the pilot of the steamer ahead shall answer by the same signals; or if he does not think it safe for the steamer astern to attempt to pass at that point,

he shall immediately signify the same by giving several short and rapid blasts of the whistle, and under no circumstances shall the steamer astern attempt to pass the steamer ahead until such time as they have reached a point where it can be safely done, when said steamer ahead shall signify her willingness by blowing the proper signals. The boat ahead shall in no case attempt to cross the bow or crowd upon the course of the passing steamer.

Every vessel coming up with another vessel from any direction more than two points abaft her beam—that is, in such a position with reference to the vessel which she is overtaking that at night she would be unable to see either of that vessel's side lights—shall be deemed to be an overtaking vessel; and no subsequent alteration of the bearing between the two vessels shall make the overtaking vessel a crossing vessel within the meaning of these rules, or relieve her of the duty of keeping clear of the overtaken vessel until she is finally passed and clear.

N. B.—The foregoing rules are to be complied with in all cases except when steamers are navigating in a crowded channel or in the vicinity of wharves; under such circumstances steamers must be run and managed with great caution, sounding the whistle as may be necessary, to guard against collision or other accidents.

In construing and obeying these rules due regard must be had to all dangers of navigation, and to any special circumstances which may exist in any particular case rendering a departure from them necessary in order to avoid immediate danger.

Rule VII. All double-ended ferryboats on the Great Lakes and tributaries thereto shall carry a central range of clear, bright, white lights, showing all around the horizon, placed at equal altitudes forward and aft; also such side lights as specified in rule three, paragraphs (b) and (c). act of Congress approved February 8, 1895, regulating navigation on the Great Lakes.

Local inspectors in districts having ferryboats shall, whenever the safety of navigation may require, designate for each line of such boats a certain light, white or colored, which shall show all around the horizon, to designate and distinguish such lines from each other. which light shall be carried on a flagstaff amidship, 15 feet above the white range light.

Rule VIII. When steamers are running in a fog or thick weather, except steamers with a raft in tow, it shall be the duty of the pilot to cause three distinct blasts of the whistle to be sounded at intervals not exceeding one minute. A steamer with a raft in tow shall sound at intervals of not more than one minute a screeching or Modoc whistle for from three to five seconds.

A steam vessel hearing, apparently not more than four points from right ahead, the fog signal of another vessel, shall at once reduce her speed to bare steerageway, and navigate with caution until the vessels shall have **passed** each other.

Rule IX. Tugs under 30 tons register (net) and small steamers navigating Lake Ontario and the St. Lawrence River, except open boats, shall carry the red and green lights prescribed by law for other lake steamers; and, in addition thereto, a central range of two white lights, the after light being carried at an elevation of at least 15 feet above the light at the head of the vessel; and, when towing other vessels, shall carry an additional white light aft not less than 3 feet vertically below the after range light.

Except as provided for in the preceding paragraph of this rule, steam tugs under 30 tons register (net) whose principal business is harbor towing shall carry the red and green side lights carried by other steamers; and, at the foremast head, or, if the steamer have no foremast, then on top of the pilot house, a white light so constructed as to show a uniform and unbroken light over an arc of the horizon of 20 points of the compass, and so fixed as to throw the light 10 points on each side of the vessel, namely, from right ahead to 2 points abaft the beam on either side, and of such a character as to be visible at a distance of at least 3 miles; and when towing, except when towing a raft, shall carry an additional white light hung not less than 3 feet vertically above the foremast head light. When towing a raft, the two head lights shall be hung horizontally not less than 4 feet apart.

Open boats on the Great Lakes and their tributaries east as far as Montreal shall not be obliged to carry the side lights required for other vessels, but shall, if they do not carry such lights, carry a lantern having a green slide on one side and a red slide on the other side; and on the approach of or to other vessels, such lantern shall be exhibited in sufficient time to prevent collision, and in such a manner that the green light shall not be seen on the port side, nor the red light on the starboard side.

Rule X. Barges, "barge consorts," or canal boats in tow of a steamer shall carry the red and green side lights, which shall be placed in the same manner as required on other vessels being towed; and a "barge consort" not having her own anchor down, but hanging on a hawser astern of a towing steamer at anchor, shall carry, in addition to the red and green side lights, a red light at the foremast head and a red light at end of main peak, or in equivalent positions at bow and stern.

All scows without rudders or other means of guidance being towed by hawser behind steam vessels on any navigable waters of the United States shall carry a regulation white light at each end of each scow (such lights to be carried not less than six feet above the deck), as shown in diagrams No. 4, Department Circular No. 27, dated February 13, 1894. When scows are towed two or more abreast, they shall carry the regulation white lights as shown in diagrams No. 7, Department Circular No. 27, 1894.

Rule XI. Produce boats, canal boats, fishing boats, rafts or other water craft navigating any bay, harbor, or river, by hand power, horse power, sail, or by the current of the river, or which shall be anchored or moored in or near the channel or fairway of any bay, harbor, or river,

and not otherwise provided for, shall carry one bright white light forward, not less than 6 feet above the deck.

Rafts shall carry, in each case, on a pole not less than 6 feet high, a bright white light, visible all around the horizon, as follows:

Rafts of one crib and not more than two in length shall carry one such light. Rafts of three or more cribs in length shall carry one such light at each end of the raft. Rafts of more than one crib abreast shall carry one such light on each outside corner of the raft, making four lights in all.

Bag or boom rafts navigating or anchored in the fairway of any bay, harbor, or river, shall carry a bright white light at least 12 feet high at each end of the raft, and one of such lights on each side midway between the forward and after end.

The board of supervising inspectors, at their annual meeting of January, 1900, adopted the following resolution relating to the use of search lights:

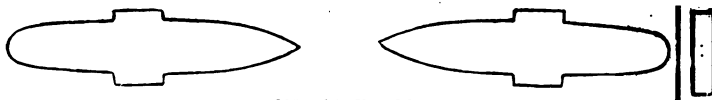
Resolved. That masters, mates, and pilots of all vessels be required to exercise due caution in the use of their search lights so as not to throw the rays of the light into the pilot house of passing steamers.

DIAGRAMS.

The following diagrams are intended to illustrate the working of the foregoing system of colored lights, and are to be used by pilots in connection with the rules, as sailing directions on meeting or nearing other steamers:

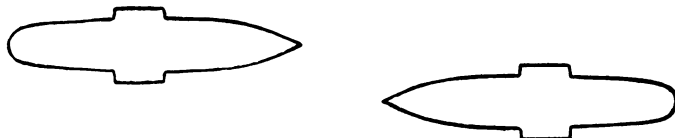
FIRST SITUATION.

In this situation the two colored lights will be visible to the pilot of each steamer, which will indicate their direct approach "head and head" toward each other. In this situation it is a standing rule that both shall put their helms to port and pass to the right, each having previously given one blast of the whistle.



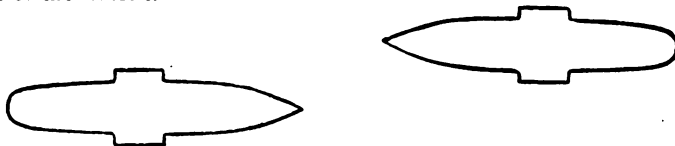
SECOND SITUATION.

In this situation the green light only will be visible to the pilot of each steamer. They are, therefore, passing to starboard, which is rulable in this situation, each pilot having previously signified his intention by two blasts of the whistle.



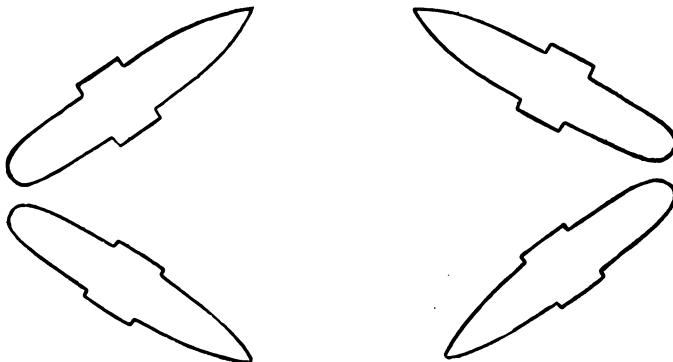
THIRD SITUATION.

In this situation the red light only will be visible to the pilot of each steamer. Both vessels are evidently passing to port, which is rulable in this situation, each pilot having previously signified his intention by one blast of the whistle.



FOURTH AND FIFTH SITUATION.

When steamers are approaching each other in an oblique direction as indicated in the diagrams of the fourth and fifth situations, so that a continuation of their courses would involve risk of collision, the vessel which has the other on her own starboard side shall keep out of the way

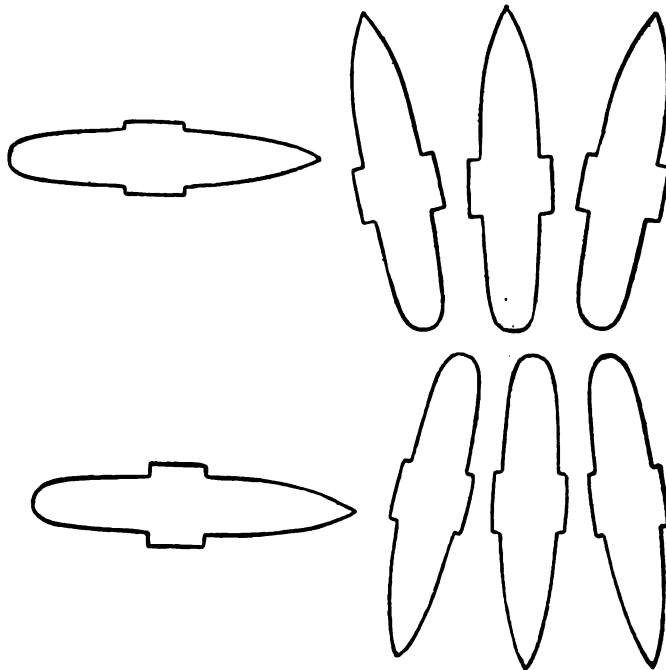


of the other, and shall, if necessary to do so, slacken her speed, or stop and reverse; indicating her intention by either one or two blasts of the whistle as the circumstances may require, and in accordance with Rule 1 of the Pilot Rules.

SIXTH AND SEVENTH SITUATIONS.

A steamer approaching another, crossing her bow at or nearly at right angles, as represented in diagrams of the sixth and seventh situations, shall, if approaching the crossing steamer so near as to involve risk of collision, port her helm, when seeing only the red light of the

crossing steamer; and starboard her helm, if only the green light is in view; at the same time, slow, or stop and back, if necessary, each steamer to give the whistle signals as provided in Rule I of the rules, the crossing steamer to keep course and speed.



Note.—The whistle signals of the above situations must be given in all cases, except as qualified by Rule III, Pilot Rules.

The manner of fixing the colored lights should be particularly attended to. They will require to be fitted each with a screen, of wood or canvas, on the inboard side and close to the light, in order to prevent both being seen at the same moment from any direction but that of right ahead to 2 points abaft the beam.

This is important, for without the screens any plan of bow lights would be ineffectual as a means of indicating the direction of steering. This will be readily understood by a reference to the preceding illustra-

tions, where it will appear evident that in any situation in which two vessels may approach each other in the dark the colored lights will instantly indicate to both the relative course of each; that is, each will know whether the other is approaching directly, or crossing the bows either to starboard or port.

This intimation, with the signals by whistle, as provided, is all that is required to enable vessels to pass each other in the darkest night with almost equal safety as in broad day.

Rules of the Road for the Great Lakes, known as the White Law.

An act to regulate navigation on the Great Lakes and their connecting and tributary waters.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the following rules for preventing collisions shall be followed in the navigation of all public and private vessels of the United States upon the Great Lakes and their connecting and tributary waters as far east as Montreal.

STEAM AND SAIL VESSELS.

Rule 1. Every steam vessel which is under sail and not under steam shall be considered a sail vessel; and every steam vessel which is under steam, whether under sail or not, shall be considered a steam vessel. The word steam vessel shall include any vessel propelled by machinery. A vessel is under way within the meaning of these rules when she is not at anchor or made fast to the shore, or aground.

LIGHTS.

Rule 2. The lights mentioned in the following rules and no others shall be carried in all weathers from sunset to sunrise. The word visible in these rules when applied to lights shall mean visible on a dark night with a clear atmosphere.

Rule 3. Except in the cases hereinafter expressly provided for, a steam vessel when under way shall carry:

(a) On or in front of the foremast, or if a vessel without a foremast, then in the fore part of the vessel, at a height above the hull of not less than twenty feet, and if the beam of the vessel exceeds twenty feet, then at a height above the hull not less than such beam, so, however, that such height need not exceed forty feet, a bright white light so constructed as to show an unbroken light over an arc of the horizon of twenty points of the compass, so fixed as to throw the light ten points on each side of the vessel, namely, from right ahead to two points abaft the beam on either side, and of such character as to be visible at a distance of at least five miles.

(b) On the starboard side, a green light, so constructed as to throw an unbroken light over an arc of the horizon of ten points of the compass, so fixed as to throw the light from right ahead to two points abaft the beam on the starboard side, and of such a character as to be visible at a distance of at least two miles.

(c) On the port side, a red light, so constructed as to show an unbroken light over an arc of the horizon of ten points of the compass, so fixed as to throw the light from right ahead to two points abaft the beam on the port side, and of such a character as to be visible at a distance of at least two miles.

(d) The said green and red lights shall be fitted with inboard screens projecting at least three feet forward from the light, so as to prevent these lights from being seen across the bow.

(e) A steamer of over one hundred and fifty feet register length shall also carry when under way an additional bright light similar in construction to that mentioned in subdivision (a), so fixed as to throw the light all around the horizon and of such a character as to be visible at a distance of at least three miles. Such additional light shall be placed in line with the keel at least fifteen feet higher from the deck and more than seventy-five feet abaft the light mentioned in subdivision (a).

VESSELS TOWING.

Rule 4. A steam vessel having a tow other than a raft shall in addition to the forward bright light mentioned in subdivision (a) of rule three, carry in a vertical line not less than six feet above or below that light a second bright light of the same construction and character and fixed and carried in the same manner as the forward bright light mentioned in said subdivision (a) of rule three. Such steamer shall also carry a small bright light abaft the funnel or after mast for the tow to steer by, but such light shall not be visible forward of the beam.

Rule 5. A steam vessel having a raft in tow shall, instead of the forward lights mentioned in rule four carry on or in front of the foremast, or if a vessel without a foremast, then in the fore part of the vessel, at a height above the hull of not less than twenty feet and if the beam of the vessel exceeds twenty feet, then at a height above the hull not less than such beam, so however that such height need not exceed forty feet, two bright lights in a horizontal line athwartships and not less than eight feet apart, each so fixed as to throw the light all around the horizon and of such character as to be visible at a distance of at least five miles. Such steamer shall also carry the small bright steering light aft, of the character and fixed as required in rule four.

Rule 6. A sailing vessel under way and any vessel being towed shall carry the side lights mentioned in rule three.

A vessel in tow shall also carry a small bright light aft, but such light shall not be visible forward of the beam.

Rule 7. The lights for tugs under thirty tons register, whose principal business is harbor towing and for boats navigating only on the River St. Lawrence, also ferryboats, rafts, and canal boats, shall be regulated by rules which have been or may hereafter be prescribed by the Board of Supervising Inspectors of Steam Vessels.

Rule 8. Whenever, as in the case of small vessels under way during bad weather, the green and red side lights cannot be fixed, these lights shall be kept at hand lighted and ready for use, and shall, on the approach of or to other vessels, be exhibited on their respective sides in sufficient time to prevent collision, in such manner as to make them most visible, and so that the green light shall not be seen on the port side, nor the red light on the starboard side, nor, if practicable, more than two points abaft the beam, on their respective sides. To make the use of these portable lights more certain and easy, they shall each be painted outside with the color of the light they respectively contain, and shall be provided with suitable screens.

Rule 9. A vessel under one hundred and fifty feet register length, when at anchor, shall carry forward, where it can best be seen, but at a height not exceeding twenty feet above the hull, a white light in a lantern constructed so as to show a clear, uniform, and unbroken light, visible all around the horizon, at a distance of at least one mile.

A vessel of one hundred and fifty feet or upward in register length, when at anchor, shall carry in the forward part of the vessel, at a height of not less than twenty and not exceeding forty feet above the hull, one such light, and at or near the stern of the vessel, and at such a height that it shall be not less than fifteen feet lower than the forward light, another such light.

Rule 10. Produce boats, canal boats, fishing boats, rafts, or other water craft navigating any bay, harbor, or river by hand power, horse power, sail, or by the current of the river, or which shall be anchored or moored in or near the channel or fairway of any bay, harbor, or river, and not otherwise provided for in these rules, shall carry one or more good white lights, which shall be placed in such manner as shall be prescribed by the Board of Supervising Inspectors of Steam Vessels.

Rule 11. Open boats shall not be obliged to carry the side lights required for other vessels, but shall, if they do not carry such lights, carry a lantern having a green slide on one side and a red slide on the other side; and on the approach of or to other vessels such lantern shall be exhibited in sufficient time to prevent collision, and in such a manner that the green light shall not be seen on the port side, nor the red light on the starboard side. Open boats, when at anchor or stationary, shall exhibit a bright white light. They shall not, however, be prevented from using a flare-up in addition if considered expedient.

Rule 12. Sailing vessels shall at all times, on the approach of any steamer during the night-time, show a lighted torch upon that point or quarter to which such steamer shall be approaching.

Rule 13. The exhibition of any light on board of a vessel of war or revenue cutter of the United States may be suspended whenever, in the opinion of the Secretary of the Navy, the commander in chief of a squadron, or the commander of a vessel acting singly, the special character of the service may require it.

FOG SIGNALS.

Rule 14. A steam vessel shall be provided with an efficient whistle, sounded by steam or by some substitute for steam, placed before the funnel not less than eight feet from the deck, or in such other place as the local inspectors of steam vessels shall determine, and of such character as to be heard in ordinary weather at a distance of at least two miles, and with an efficient bell, and it is hereby made the duty of the United States local inspectors of steam vessels when inspecting the same to require each steamer to be furnished with such whistle and bell. A sailing vessel shall be provided with an efficient fog horn and with an efficient bell.

Whenever there is thick weather by reason of fog, mist, falling snow, heavy rainstorms, or other causes, whether by day or by night, fog signals shall be used as follows:

(a) A steam vessel under way, excepting only a steam vessel with raft in tow, shall sound at intervals of not more than one minute three distinct blasts of her whistle.

(b) Every vessel in tow of another vessel shall, at intervals of one minute, sound four bells on a good and efficient and properly placed bell as follows: By striking the bell twice in quick succession, followed by a little longer interval, and then again striking twice in quick succession (in the manner in which four bells is struck in indicating time).

(c) A steamer with a raft in tow shall sound at intervals of not more than one minute a screeching or Modoc whistle for from three to five seconds.

(d) A sailing vessel under way and not in tow shall sound at intervals of not more than one minute—

If on the starboard tack with wind forward of abeam, one blast of her fog horn;

If on the port tack with wind forward of the beam, two blasts of her fog horn;

If she has the wind abaft the beam on either side, three blasts of her fog horn.

(e) Any vessel at anchor and any vessel aground in or near a channel or fairway shall at intervals of not more than two minutes ring the bell rapidly for three to five seconds.

(f) Vessels of less than 10 tons registered tonnage not being steam vessels, shall not be obliged to give the above-mentioned signals, but if they do not they shall make some other efficient sound signal at intervals of not more than one minute.

(g) Produce boats, fishing boats, rafts, or other water craft navigating by hand power or by the current of the river, or anchored or moored in or near the channel or fairway and not in any port, and not otherwise provided for in these rules, shall sound a fog horn, or equivalent signal, at intervals of not more than one minute.

Rule 15. Every vessel shall, in thick weather, by reason of fog, mist, falling snow, heavy rain storms, or other causes, go at moderate speed. A steam vessel hearing, apparently not more than four points from right ahead, the fog signal of another vessel shall at once reduce her speed to bare steerageway, and navigate with caution until the vessels shall have passed each other.

STEERING AND SAILING RULES.

SAILING VESSELS.

Rule 16. When two sailing vessels are approaching one another so as to involve risk of collision one of them shall keep out of the way of the other, as follows, namely:

(a) A vessel which is running free shall keep out of the way of a vessel which is close hauled.

(b) A vessel which is close hauled on the port tack shall keep out of the way of a vessel which is close hauled on the starboard tack.

(c) When both are running free, with the wind on different sides, the vessel which has the wind on the port side shall keep out of the way of the other.

(d) When they are running free, with the wind on the same side, the vessel which is to windward shall keep out of the way of the vessel which is to leeward.

STEAM VESSELS.

Rule 17. When two steam vessels are meeting end on, or nearly end on, so as to involve risk of collision, each shall alter her course to starboard, so that each shall pass on the port side of the other.

Rule 18. When two steam vessels are crossing so as to involve risk of collision the vessel which has the other on her own starboard side shall keep out of the way of the other.

Rule 19. When a steam vessel and sailing vessel are proceeding in such directions as to involve risk of collision the steam vessel shall keep out of the way of the sailing vessel.

Rule 20. Where, by any of the rules herein prescribed, one of two vessels shall keep out of the way, the other shall keep her course and speed.

Rule 21. Every steam vessel which is directed by these rules to keep out of the way of another vessel shall, on approaching her, if necessary, slacken her speed or stop or reverse.

Rule 22. Notwithstanding anything contained in these rules every vessel overtaking any other shall keep out of the way of the overtaken vessel.

Rule 23. In all weathers every steam vessel under way in taking any course authorized or required by these rules shall indicate that course by the following signals on her whistle, to be accompanied whenever required by corresponding alteration of her helm; and every steam vessel receiving a signal from another shall promptly respond with the same signal or, as provided in Rule Twenty-six:

One blast to mean, "I am directing my course to starboard."

Two blasts to mean, "I am directing my course to port." But the giving or answering signals by a vessel required to keep her course shall not vary the duties and obligations of the respective vessels.

Rule 24. That in all narrow channels where there is a current, and in the rivers Saint Mary, Saint Clair, Detroit, Niagara, and Saint Lawrence, when two steamers are meeting, the descending steamer shall have the right of way, and shall, before the vessels shall have arrived within the distance of one-half mile of each other, give the signal necessary to indicate which side she elects to take

Rule 25. In all channels less than five hundred feet in width, no steam vessel shall pass another going in the same direction unless the steam vessel ahead be disabled or signify her willingness that the steam vessel astern shall pass, when the steam vessel astern may pass, subject, however, to the other rules applicable to such a situation. And when steam vessels proceeding in opposite directions are about to meet in such channels, both such vessels shall be slowed down to a moderate speed, according to the circumstances.

Rule 26. If the pilot of a steam vessel to which a passing signal is sounded, deems it unsafe to accept and assent to said signal, he shall not sound a cross signal; but in that case, and in every case where the pilot of one steamer fails to understand the course or intention of an approaching steamer, whether from signals being given or answered erroneously, or from other causes, the pilot of such steamer so receiving the first passing signal, or the pilot so in doubt, shall sound several short and rapid blasts of the whistle; and if the vessels shall have approached within half a mile of each other both shall reduce their speed to bare steerageway, and, if necessary, stop and reverse.

Rule 27. In obeying and construing these rules due regard shall be had to all dangers of navigation and collision and to any special circumstances which may render a departure from the above rules necessary in order to avoid immediate danger.

Rule 28. Nothing in these rules shall exonerate any vessel, or the owner or master or crew thereof, from the consequences of any neglect to carry lights or signals, or of any neglect to keep a proper lookout, or of a neglect of any precaution which may be required by the ordinary practice of seamen, or by the special circumstances of the case.

Sec. 2. That a fine not exceeding two hundred dollars may be imposed for the violation of any of the provisions of this act. The vessel shall be liable for the said penalty, and may be seized and proceeded against, by way of libel, in the district court of the United States for any district within which such vessel may be found.

Sec. 3. That the Secretary of the Treasury of the United States shall have authority to establish all necessary regulations, not inconsistent with the provisions of this act, required to carry the same into effect.

The Board of Supervising Inspectors of the United States shall have authority to establish such regulations to be observed by all steam vessels in passing each other, not inconsistent with the provisions of this act, as they shall from time to time deem necessary; and all regulations adopted by the said Board of Supervising Inspectors under the authority of this act, when approved by the Secretary of the Treasury shall have the force of law. Two printed copies of any such regulations for passing, signed by them, shall be furnished to each steam vessel, and shall at all times be kept posted up in conspicuous places on board.

Sec. 4. That all laws or parts of laws, so far as applicable to the navigation of the Great Lakes and their connecting and tributary waters as far east as Montreal, inconsistent with the foregoing rules are hereby repealed.

Sec. 5. That this act shall take effect on and after March first, eighteen hundred and ninety-five.

Navigation of St. Mary's River.

Rules and Regulations governing the Movements and Anchorage of Vessels as prescribed by the Secretary of the Treasury, and Amended January 22, 1901.

Rule 1.—No vessel ascending or descending the St. Mary's river shall proceed at a greater speed than 9 statute miles per hour over the ground between Everens point and the northern floatlights in lower Hay lake of the 20-ft. channel leading from Neebish channel, nor between the crib in upper Hay lake at the entrance of the 20-ft. channel of the Frechette and Little Rapids cut and the government pier at Sault Ste. Marie, nor between the western end of Sault Ste. Marie canal pier and Pointe aux Pins light-house. Vessels of 500 tons or less are exempt from the provisions of this rule.

Rule 2.—No vessel shall pass or approach another vessel moving in the same direction nearer than a quarter of a mile between Everens point and the northern end of the Dark Hole, nor between the first black spar buoy south of the gas buoy in the northern part of Little Mud lake and

the northern float lights in lower Hay lake of the 20-foot channel leading from Neebish channel, nor between the southern entrance of the 20-foot channel of the Frechette and Little Rapids cut and the crib light at the northern entrance of the Little Rapids cut, nor between the western end of the Sault Ste. Marie canal piers and Big point.

Rule 3.—All vessels bound up the St. Marys river may pass other vessels moving in the same direction between the crib light in the northern part of Mud lake, and Everens point in Little Mud lake, between the northern part of the Dark Hole and the south red buoy at Stribbling point; also between the crib light-house at the northern entrance of Little Rapids or island cut and the government pier at Sault Ste. Marie, and between Big point and the light-house at Pointe aux Pins. Vessels bound down the river shall not pass or approach other vessels moving in the same direction nearer than a quarter of a mile, from below the wharf of the Michigan & Lake Superior Power Co. at Sault Ste. Marie, until Everens point is passed, excepting, however, in Hay lake.

Vessels bound down, of less than 500 gross tons without tows, may pass other vessels moving in the same direction in Little Mud lake, provided the overtaking vessel shall pass to the westward of the black buoys and before reaching the Dark Hole.

No vessel passing another vessel shall move at a rate of speed greater than 9 statute miles per hour over the ground.

Rule 4.—All vessels navigating the St. Marys river may proceed at full speed and pass other vessels moving in the same direction between Point Detour and the turning channel buoy in the northern part of Mud lake, between the northern float lights of the 20-foot channel leading from the Neebish channel into Hay lake and the crib light at the entrance of Frechette and Little Rapids cut.

Special attention is called to rule 24 of the act of congress approved Feb. 18, 1895, giving right of way to descending vessels in the St. Mary's river.

Rule 5.—In case one steamer desires to pass another going in the same direction on said river, at a point where such passing is permitted by these rules, the pilot of the steamer astern shall, if he intends to pass the steamer ahead on the right hand or starboard side, indicate such intention by giving one short blast of the steam whistle, and if he intends to pass such steamer ahead on the left hand or port side, he shall indicate such intention by giving two short blasts of the steam whistle. Upon the pilot of one steamer astern of another giving such signal, the pilot of the steamer ahead shall immediately answer by giving the same signal; but if he does not think it safe for the steamer astern to attempt to pass at that point, he shall immediately signify the same by giving several short and rapid blasts of the steam whistle; and under no circumstances shall the steamer astern attempt to pass the steamer ahead until such time as they have reached a point where it can be safely done, when said steamer ahead shall signify her willingness by blowing the proper signals;

then the steamer ahead shall slacken to a slow rate of speed, and the steamer astern shall pass the overtaken steamer, giving the overtaken steamer as wide a berth as possible.

Steamers bound in opposite directions shall slow to half speed within one-quarter of a mile of each other until each has passed the other.

Rule 6.—The patrolling vessels of the revenue cutter service shall always have the right of way over all other vessels, as indicated by the sailing signals given by any such patrolling vessel.

Rule 7.—Three distinct blasts of the steam whistle, when sounded from a patrolling vessel, will indicate that the vessel to which such signal is given is proceeding at too high a rate of speed, and such vessel must immediately moderate her speed accordingly.

Rule 8.—Three long blasts of the steam whistle, followed by one short blast, when sounded from a patrolling vessel, will indicate that the vessel to which such signal is given must stop until further orders from the patrolling vessel.

Rule 9.—Two red lanterns, one above the other, hoisted on a patrolling vessel at night, will indicate to the vessel to which such signal is given that such vessel must stop and not proceed farther toward the position where such lights are displayed.

Rule 10.—No vessel or raft shall anchor in any of the improved channels now abreast of the government piers at Sault Ste. Marie, except in distress or during a fog, and any vessel so anchored must always shift her anchorage when so directed by the officer in charge of a patrolling vessel to the spot designated by such officer.

Rule 11.—Vessels navigating the St. Mary's river may anchor between Point Detour and Mud lake turning buoy, and at Sailors' Encampment close to the wharves of the sawmill. In Hay lake between the Neebish and Little Rapids channel outside of the channel as indicated by the ranges, but nothing in this rule shall be construed to prohibit any vessel from lying alongside of any wharf in said river.

Rule 12.—Rafts being towed in the St. Marys river will be required to use what is termed the "old channel." From Harwood point to Mud lake turning buoy they will move at the time designated by the officer in charge of the patrolling vessel. When lying by they must be moored out of the channel.

Rule 13.—In navigating the St. Marys river, in all cases where the foregoing rules are not applicable, the attention of masters and pilots is called to the sailing rules contained in the act of congress of Feb. 8, 1895.

Rule 14.—All vessels navigating the St. Marys river, in passing dredges and vessels at work on improvements to the channel, will be required to slacken their speed upon such dredge or other vessels engaged in such improvement giving the signal of three distinct blasts of the steam whistle.

Rule 15.—The pilot of every steamer descending the St. Marys river *shall*, when abreast of the Dark Hole gas buoy, and before passing

around the bend of said river at Sailors' Encampment, give a signal of one blast of the steam whistle of 10 seconds' duration, which signal shall be answered by a blast of the steam whistle of the same duration by any vessel ascending said river within hearing. The pilot of every steamer ascending said river, not having heard such signal from a descending steamer, shall, when abreast of Everens point, and before passing around the bend of said river at Sailors' Encampment, give a signal of one blast of the steam whistle of 10 seconds' duration, which shall be answered by a blast of the same duration by any vessel descending said river within hearing. After such signal of one blast of the steam whistle of 10 seconds' duration shall have been given and answered, the usual passing signal must be given.

Rule 16.—When a steamer, and tug towing scow from dredge at work deepening channel in Little Rapid cut, shall be moving in same direction, steamer may pass westward of tug providing former gives customary signal for steamer when passing another steamer moving in same direction, and this signal is answered by tug.

The tug will, however, keep well over to eastern side of channel as steamer passes. But overtaking steamer shall not pass tug towing scow if steamer be approaching in opposite direction so as to make three vessels abreast when thus passing.

Rule 17.—No steamer stemming the current through the Dyke and island cut shall be allowed to tow more than one vessel without the aid of a tug, unless such steamer has the power to move the tow over the ground at the rate of at least 3 miles an hour.

Rule 18.—Whenever vessels are compelled, by reason of an obstruction in any of the channels of the St. Marys river to collect in certain parts of the river, the revenue cutter officer in charge shall direct where such vessels shall be moored and anchored, and no vessel moored or anchored, by reason of such obstruction, shall move, until directed by the revenue cutter officer in charge.

Rule 19.—Whenever at Johnston's point, Sailors' Encampment, a red ball is displayed under a white ball, or two red lights are displayed under a white light, indicating that a steamer with a tow is bound down, no steamer with a tow bound up below Johnston's point shall meet or pass the bound-down tow until the bound-down tow has passed clear of Johnston's point.

Rule 20.—No steamer navigating the St. Marys river, either ascending or descending, shall pass another steamer or steamers moving either in the same or opposite direction, in such a position that more than two steamers shall be abreast of each other when thus passing. In case three steamers are liable to pass in a position where more than two of them will be abreast in passing, the overtaking steamer shall check its speed within a quarter of a mile of the overtaken steamer in order to avoid passing in such position.

Whenever a steamer bound down the St. Marys river in the daytime enters the Dark Hole and a steamer bound up is approaching John-

ston's point a white ball will be displayed on a pole at Johnston's point, Sailors' Encampment, in said river, until the steamer is abreast of Johnston's point, and whenever a steamer having a vessel or vessels in tow bound down in the day time enters the Dark Hole and a steamer bound up is approaching Johnston's point a red ball will be displayed under the white ball on the pole until the steamer is abreast of said point.

Whenever a steamer bound down said river at night enters the Dark Hole and a steamer bound up is approaching Johnston's point a white light over a red light will be displayed on said pole; and whenever a steamer bound down said river at night having a vessel or vessels in tow enters the Dark Hole and a steamer bound up is approaching Johnston's point a white light with two red lights under it will be displayed on said pole.

No flags or lanterns, however, will be displayed for tugboats without tows or for small vessels.

SCHEDULE OF TIME TO BE RUN IN CERTAIN PARTS OF ST. MARY'S RIVER.

For the facilitation of speed calculations in connection with the rules and regulations governing the movements and anchorage of vessels in St. Mary's river, the treasury department publishes the following schedule of distances between certain points along the St. Mary's river, together with the time required to run those distances at a speed of nine miles an hour:

Sections.	Distance in statute miles.	Time in minutes.
Mud lake buoy to Everens point.....	2 $\frac{3}{4}$	17 $\frac{1}{2}$
Everens point to Encampment crib light.....	$\frac{3}{4}$	5
Encampment crib light to Dark Hole turn.....	1 $\frac{1}{2}$	11
Dark Hole turn to Harwood point turn.....	3 $\frac{1}{4}$	21 $\frac{1}{2}$
Harwood point turn to junction buoy, Hay lake....	3 $\frac{1}{4}$	21 $\frac{1}{2}$
Junction buoy to upper lights, lower cut.....	2 $\frac{3}{4}$	18 $\frac{1}{2}$
Lower cut to Frechette cut, full speed.....		
Lower range, Frechette cut, to red can buoy.....	1 $\frac{1}{2}$	10
Red can buoy to lower light, Little Rapids.....	1 $\frac{1}{2}$	10
Lower light to north entrance light-house.....	1 $\frac{1}{2}$	10
North entrance light-house to government pier.....	1 $\frac{1}{2}$	11
West end of piers to Big point.....	2 $\frac{1}{4}$	15
Big point to Pointe aux Pins light-house.....	3 $\frac{1}{4}$	21 $\frac{1}{2}$
Through Dike	1 $\frac{1}{2}$	7 $\frac{1}{2}$
Through island cut	1 $\frac{1}{2}$	7 $\frac{1}{2}$
Least towing time allowed vessels bound up through Dyke and island cut		22 $\frac{1}{2}$

Capt. A. B. Davis, R. C. S., commanding United States steamer Morrill has supervision of the enforcement of the foregoing rules and regulations, and all complaints or appeals arising under them will be made to *that officer by parties concerned.*

St. Mary's Falls Canal Rules.

EXTRACT FROM ACT OF CONGRESS, AUG. 17, 1894.

Sec. 4. That it shall be the duty of the secretary of war to prescribe such rules and regulations for the use, administrations, and navigation of any or all canals and similar works of navigation that now are, or that hereafter may be, owned, operated or maintained by the United States as in his judgment the public necessity may require.

Such rules and regulations shall be posted in conspicuous and appropriate places, for the information of the public; and every person and every corporation which shall knowingly and wilfully violate such rules and regulations shall be deemed guilty of a misdemeanor and, on conviction thereof in any district court in the United States within whose territorial jurisdiction such offense may have been committed, shall be punished by a fine not exceeding five hundred dollars, or by imprisonment (in the case of a natural person) not exceeding six months, in the discretion of the court.

RULES AND REGULATIONS.—ADMINISTRATION.

1. The canal and all its appurtenances shall be in charge of the officer of the corps of engineers, United States army, detailed for that duty by the secretary of war. His representative at the locality shall be the assistant engineer in local charge of the works of river and harbor improvement, who, for canal purposes, shall be styled general superintendent. Except in case of emergency, all orders and instructions from the engineer officer in charge shall be communicated to the canal force through the general superintendent. In case of emergency, however, he is authorized to take such steps as may be immediately necessary without waiting for instructions from the engineer officer in charge.

2. The canal force shall consist of one superintendent, one clerk, three assistant superintendents, and such enginemen, watchmen, foremen, lockmen and laborers as may be necessary to the efficient operation of the canal and care of grounds and other public property pertaining to the canal.

3. The superintendent shall be charged with the immediate control and management of the entire force. He shall see that all the members perform their respective duties, and that all rules and regulations for use of the canal and grounds are duly enforced, to which end he is authorized to give all necessary orders and directions in accordance with said rules and regulations, both to employes of the government and to any or every person within the limits of the canal or the grounds pertaining thereto, whether navigating the canal or not. In case of his absence or disability his duties shall be performed on their respective watches by the assistant superintendents.

4. The clerk shall keep the books and records pertaining to the canal and grounds. He shall see to the collection of all required statistical

information relating to the business of the canal. He shall prepare all vouchers and accounts and perform all other duties that may arise of similar character.

5. The remainder of the canal force shall be divided into three watches, each consisting of one assistant superintendent and the necessary enginemen, watchmen, foremen, lockmen and laborers. The duration of each watch shall be eight hours, and the watches shall be kept in rotation but in case of emergency, the superintendent may vary the duration of the watches, the ordinary routine to be resumed as soon as the emergency has passed.

6. Under the personal direction of its assistant superintendent, the individual members of each watch during its tour of duty will be employed in passing vessels through the canal, in the care and protection of the canal and grounds, as well as of all other property belonging to the United States. They are enjoined to be diligent and attentive in the performance of their duties, courteous but firm to all with whom they come in contact, and to never lose sight of the fact that the purpose of their employment is to facilitate the use of the canal.

USE AND NAVIGATION OF THE CANAL.

7. The canal grounds when used in these rules will mean all of the grounds which have been set aside for the use of the canal or occupied in its construction and including the area covered by its riparian right. Therefore, the western limit is the end of the pier on which the high house stands and the eastern limit is the northeastern corner of Old Fort Brady reservation. The canal is the water lying between these two points and the bed and banks containing the same.

8. The movement of all vessels, boats or other floating things, in the canal shall be under the direction of the superintendent and his assistant whose orders and instructions must be obeyed.

9. All steamers desiring to use the locks shall signal for the same by two long and two short blasts of the whistle.

10. No tow shall enter or pass through the canal with a tow line more than 400 feet in length.

11. In passing the canal, vessels or boats belonging to the United States government shall have precedence over all others. All registered merchant vessels must pass through the canal and locks in the order of their arrival at the canal, unless otherwise directed by the superintendent or his assistant in charge. The time of arrival at the canal will be the time of crossing the straight lines which join the extremes of the piers of the eastern and western ends of the canal, respectively. Unregistered craft will not be locked separately unless specially permitted by the superintendent or by one of the assistant superintendents of the canal.

12. No person in charge of a boat coming from above shall bring it within 400 feet of the upper gates until they are made ready for it to enter.

and no person in charge of a boat coming from below shall bring it within 200 feet of the lower gates until they are made ready for entrance.

13. Upon each passage through the canal, masters or clerks of vessels or boats shall report to the canal office, upon prescribed forms, a statement of passengers, freight, and registered tonnage, and such other statistical information as may be required by the blank forms which are issued to them for the purpose.

14. No business, trading, or landing of freight or baggage will be allowed on or over the canal piers or lock walls, nor over the piers or grounds forming a part of the canal or its appurtenances, except such small articles as may be readily carried in the hand. All persons in charge of, or employed on, any ferry boat are prohibited landing such boat at any of the canal piers.

15. No person in charge of, or employed on, any vessel or boat shall moor it to the piers except when specially permitted by the superintendent, and then only in such places and for such times as he may direct.

16. No person shall throw any material of any kind into the canal; nor shall any person clean flues in the locks.

17. All persons, whether in charge of vessels or not, are prohibited from wilfully or carelessly damaging the canal grounds, the canal, or any part thereof.

18. No person shall enter or navigate the canal with a boat which when entering, or while navigating the canal, shall have an iron or irons projecting from it, or rough surface or surfaces on it, which would be liable to damage the lock walls or canal piers.

19. No person shall cause or permit any vessel or boat of which he is in charge, or on which he is employed, to in any way obstruct the canal, or delay in passing through it, unless he is permitted to do so by the superintendent or one of the assistant superintendents of the canal.

20. In case of any vessel, boat, or other craft or raft sinking or grounding in the canal, or otherwise obstructing it, the general superintendent, or, in his absence, the superintendent of the canal, or the assistant superintendent for the time being, acting as superintendent, shall have the right to take such possession of such vessel, boat, or other craft or raft, as shall be necessary for the purpose, and remove it and clear the canal of the obstruction caused by it, and no one shall interfere with or prohibit him from doing so, or do anything that will tend to interfere with or prohibit him from doing so.

21. On the canal being obstructed by a vessel or boat or other craft, or a raft, by sinking, grounding or otherwise, the general superintendent of the canal, the superintendent or one of the assistant superintendents, in the contingency and in the sequence named in the preceding paragraph, may give notice in writing.

St. Clair Flats Ship Canal, Michigan.

THE LAW—EXTRACT FROM ACT OF CONGRESS, AUG. 17, 1894.

Sec. 4. That it shall be the duty of the secretary of war to prescribe such rules and regulations for the use, administration and navigation of any or all canals and similar works of navigation that now are, or that hereafter may be, owned, operated or maintained by the United States; and in his judgment the public necessity may require.

Such rules and regulations shall be posted in conspicuous and appropriate places for the information of the public; and every person and every corporation which shall knowingly and wilfully violate such rules and regulations shall be deemed guilty of a misdemeanor and, on conviction thereof in any district court in the United States and within whose territorial jurisdiction such offense may have been committed, shall be punished by a fine not exceeding \$500, or by imprisonment (in the case of a natural person) not exceeding six months, in the discretion of the court.

RULES AND REGULATIONS.

1. The canal and all its appurtenances shall be in charge of the officers of the corps of engineers U. S. A., detailed for that duty by the secretary of war. His representative at the locality shall be the custodian of the canal who shall customarily receive his orders and instructions from the engineer officer in charge. In cases of emergency, however, the custodian shall have authority to take such steps as may be immediately necessary without waiting for instructions from the engineer officer in charge.

2. The custodian of the said canal shall be charged with the immediate control and management thereof, and of the grounds and public property pertaining thereto. He shall see that all laws, rules and regulations for the use of the canal and grounds are duly complied with, to which end he is authorized to give all necessary orders and directions in accordance therewith, both to employees of the government and to any or every person within the limits of the canal or the grounds pertaining thereto, whether navigating the canal or not. In case of the absence or disability of the custodian, his duties shall be performed by an acting custodian to be designated by the engineer officer in charge.

3. The custodian is enjoined to be diligent and attentive in the performance of his duties, courteous but firm to all with whom he comes in

contact, and never lose sight of the fact that the purpose of his employment is to facilitate the use of the canal.

USE AND NAVIGATION OF THE CANAL.

Definition.—St. Clair Flats ship-canal comprises the dikes, the water between the dikes, and the improved channels of approach both above and below the dikes.

4. The custodian of the canal, either by himself or through assistants, shall direct the movements of all vessels, boats, and other floating things in the canal, and of all persons upon the dikes. The directions, orders and instructions given by him or his assistants in directing the movement of any vessel, boat or other floating thing in the canal shall be obeyed by all persons in charge of or employed upon said vessel, boat or other floating thing, and by each and every person upon the dikes.

5. All persons in charge of or employed upon vessels or boats are forbidden to throw anything into the canal or to cause or permit their respective vessels

To land or tie up to the banks unless for government business.

To enter the canal two or more abreast.

To pass another vessel or boat while going in the same direction in the canal.

To follow another vessel or boat at a distance of less than 500 feet except when in tow.

To pass the canal in more than one line going each way.

To obstruct the canal in any way, or to intentionally delay, by slow passage through the canal, or by any other means, the progress of other vessels or boats navigating the same.

To hug the canal banks in passing, or to deviate more from the middle of the canal than is necessary for safe navigation.

To attempt passing the canal in the face of running ice without the express permission of the custodian of the canal.

To pass the canal at a rate of speed exceeding eight miles per hour.

6. No one in charge of, or employed on, a sailing vessel shall cause or permit such vessel to beat through the canal. He shall tow the vessel through or wait for a fair wind.

7. No one in charge of, or employed on a vessel, however propelled, shall cause or permit such vessel to pass through the canal with its sail or sails up, unless it be a sail vessel running with a fair wind.

8. No one in charge of, or employed on a vessel, shall cause or permit such vessel to enter, or attempt to pass through the canal, at a time when the available depth of water in the canal is not as great as the draft of the vessel; and the custodian of the canal shall, from time to time, announce in the marine columns of the newspapers the available depth of water in the canal.

9. To prevent blockades in the canal or its approaches, the custodian of the canal is authorized to detain any vessel at either end thereof until, in his opinion, a safe passage can be secured, and no one shall do anything to interfere with or prohibit his doing so; or anything that will tend to, or is likely to, interfere with or prohibit his doing so.

10. All persons are prohibited from wilfully or carelessly injuring or damaging the revetment work of the dikes, or the trees growing on the dikes, or any of the government buildings or other public property pertaining to the canal or the dikes, or any part thereof.

11. In case of any boat, vessel, or other craft, or raft, sinking or grounding in the canal or otherwise obstructing it, the officer, or agent of the United States in charge of the canal shall have the right to take such possession of such vessel, boat, or other craft, or raft, as shall be necessary for the purpose, and remove it, and clear the canal of the obstruction caused by it; and no one shall interfere with or prohibit him from doing so, or do anything that will tend to interfere with or prohibit him from doing so; provided, that the officer, or agent of the United States, may, in his discretion, give notice in writing to the owners of any vessel, boat, or other craft, or raft, obstructing the canal as aforesaid.

The foregoing rules and regulations for the administration, use and navigation of St. Clair Flats ship-canal, shall have full force and effect from and after July 1, 1895.

Rules and Regulations for Portage Lake Ship-Canals across Keweenaw Point, Michigan.

1. **Authority of Canal Officers**—The movement of all boats and floating things in the canals, and in the approaches thereto, shall be under the direction of the superintendent or his authorized assistants.

2. **Signals**—On entering the upper canal at either entrance steamers or tugs must blow their whistles for one minute, and in case two boats shall be in the canal at the same time, each shall so modify its speed as to pass the other at "Lily Pond," and when one arrives at "Lily Pond" before the other, a stop must be made until the other arrives and passes. In navigating the lower canals vessels will be governed by the following well-known rule: "Whenever a steamer is nearing a sharp bend or curve in the channel, where from the heights of the banks or other cause a steamer approaching from the opposite direction cannot be seen from a distance of half a mile, the pilot of such steamer, when he shall have arrived within a half a mile of such curve or bend shall give a signal by one long blast of the steam whistle, which signal shall be answered by a similar blast given by the pilot of any approaching steamer that may be within hearing. Should such signal be so answered by a steamer upon the farther side of such bend, then the usual signals for the meeting and passing shall immediately be given and answered, but if the first alarm signal of such pilot be not answered, he is to consider the channel clear and govern himself accordingly."

3. **Speed**—The rate of speed while passing through the canals, and cuts in Portage river, shall not exceed 5 miles per hour.

4. **Keeping in the Center**—In passing through the canals the center must be kept all the way through, except in passing other craft.

5. **Rafts**—The passage of "bag" or "sack" rafts, or of loose logs, into or through the canals is prohibited.

Rafts shall be made up with logs parallel to each other, secured and held closely together by cross-sticks, chains or cable, at each set of joints in the booms.

Rafts shall not be of greater dimensions either way than 50 ft. wide by 600 ft. long, and if any longer than 300 ft. shall be handled by two tugs; and in all cases must be handled by sufficient tug power to make headway against the current, and guide the raft so as to give half the channel to passing vessels.

No raft shall pass through the upper canal, i. e., between Lake Superior and Portage lake, unless by special permission of the superintendent

or his authorized assistants, who will direct a time for passage that will least interfere with other navigation.

Masters of tugs and other vessels in charge of rafts are required to avoid damaging canal revetments and displacing buoys and spars. They shall keep careful watch when passing aids to navigation, and should any be accidentally displaced they shall make every effort to leave the same in shoal water out of the main channel, and report the fact to the superintendent or his authorized assistants.

6. Harbor of Refuge—In case the upper canal is used as a shelter from storms all craft so using it are required to make fast at a point known as "Lily Pond," midway between Portage lake and Lake Superior, and except in case of storms the use of the canal longer than twenty-four hours shall require special permission of the superintendent.

7. Making Fast—Making fast to the trestles of the elevated walk leading to the pier head lighthouse, to the entrance piers, or to the revetments at the sides of the canal, except at "Lily Pond," is strictly prohibited.

8. Injury to Piers, Cribs and Sheet Piling—Vessels shall use great care not to strike or injure the cribs, piers, sheet piling or any structures pertaining to the canals.

9. Refuse in Canals—No person shall roll or throw any stones, ashes, cinders or other material into the canal or the approaches thereto, or place any such material on any bank or berme of the canals, so that it is liable to be rolled, thrown or washed in.

10. Draught of Boats—No vessel shall enter the canals whose actual draught exceeds the least depth of water in the channels of the canals as given by the superintendent.

11. Obstructing Navigation—Any one who shall willfully or through carelessness in any way obstruct the free navigation of the canals, or by the violation of any of the laws or regulations governing the canals or those using them, delay or inconvenience any boat having the right to use the canals, will be liable to prosecution, and shall be responsible for all damages and delays, and for the expense for removing the obstructions.

12. Occupation of U. S. Piers, Etc.—No person or parties shall tie or moor against the canal revetments or piers, scows, rafts or vessels of any kind, to load or unload into or from said scows or vessels across the canal revetments or piers, cordwood, timber or material of any kind, or pile the same up on the canal revetments or piers, or right of way of canals.

13. Commercial Statistics—The masters or clerks of vessels using the canals shall furnish in writing to the superintendent or his assistants a *detailed statement* of passengers and cargo carried.

Rules and Regulations for the Government of the Harbor of Refuge, Sand Beach, Michigan.

In accordance with the provisions of an act of congress, approved June 19, 1882, the following regulations are prescribed respecting the use of this harbor:

1. All boats, barges and vessels entering the harbor will be required to take such positions as may be assigned them by the custodian, who will direct their movements, either from the breakwater or from the government steam launch on the harbor.

2. In the absence of any directions as to positions, boats, barges and vessels entering the harbor will observe the following general rule: All steam craft will, when practicable, make fast directly to the snubbing posts in the breakwater. Sailing craft will so locate themselves that they will not lie in the way of other vessels entering the harbor, or in any way interfere with the work of construction or repairs that may be in progress at the time.

3. The use of chains in making fast to the breakwater will not be permitted, and lines must be attached to the snubbing posts only.

4. Steam craft with barges or vessels in tow, will, if practicable, at once placed them compactly alongside the breakwater; either taking in the tow line entirely, or passing them on the breakwater so as not to interfere in any way with the landing or departure of boats or vessels between them. If impracticable to place them alongside the breakwater, they will each drop anchor and at once take in all tow lines extending from one to the other.

5. Passenger boats will in general have the preference as to location and attention by the custodian. Rafts will give way to all documented craft.

6. All classes of boats, barges, vessels or other floating property making fast to the breakwater must at once place such fenders between themselves and the breakwater as may be thought necessary by the custodian to prevent chafing or other damage.

7. The unloading of wood, coal, ballast, stone or freight of any class upon the breakwater is expressly prohibited, except in certain cases allowed by special permission from the custodian.

8. Each and every piece of floating property made fast to the breakwater or anchored in the harbor must keep outboard from sunset to sunrise a conspicuous white light, and must have upon it, or in immediate charge of it, a watchman during the entire time such floating property is in the harbor. All colored lights must be at once taken in, or covered, on dropping anchor or making fast to the breakwater.

Regulations and Instructions Relating to the Saving of Life.

The following signals, recommended by the International Marine Conference for adoption by all institutions for saving life from wrecked vessels, have been adopted by the life-saving service of the United States:

1. Upon the discovery of a wreck by night, the life-saving force will burn a red pyrotechnic light or a red rocket to signify "You are seen; assistance will be given as soon as possible."
2. A red flag waved on shore by day, or a red light, red rocket or red Roman candle displayed by night, will signify: "Haul away."
3. A white flag waved on shore by day, or a white light slowly swung back and forth, or a white rocket or white Roman candle fired by night, will signify: "Slack away."
4. Two flags, a white and a red, waved at the same time on shore by day, or two lights, a white and a red, slowly swung at the same time, or a blue pyrotechnic light burned by night, will signify: "Do not attempt to land in your own boats; it is impossible."
5. A man on shore beckoning by day, or two torches burning near together by night, will signify: "This is the best place to land."

A Home for Aged Ship Masters.

The establishment of a home for the aged and worn-out ship master is a matter of very great importance and one that appeals to the deepest sense of every thoughtful and studious ship master and all who are interested in his welfare. It is well known that the position of the ship master of today is very different from what it was twenty-five or thirty years ago. At that time owners and masters were more on a level of equality than what they are at the present day. A man of ability as "seaman," that being the qualification necessary, was entrusted with the whole care and responsibility of his ship. He superintended the building, rigging and fitting-out, engaged freight and collected the same, paying crew's wages and disbursing all accounts, then rendering all accounts to the owner at the end of each trip, forwarding the balance by New York draft or express order, as the case might be. Thus you will see the master became not only the master, but business manager as well. After giving good proof of his abilities as a seaman and business manager he was next invited to become a partner, and by his integrity, industry and business capacity placed himself on the same plane as the owner, who

accepted and treated him as his business partner, and here I may state that in most all cases this partnership was beneficial to all.

Now marine business methods have changed and the position of the master towards the owner has likewise changed. Although his responsibilities in volume and nervous strain are many times greater, yet he is not the business manager any more. It is true the ship master of today is much better educated, more intelligent and of a higher moral standard than the man in the same capacity twenty-five years ago, and consequently more capable of conducting the business of a ship master in its various aspects than his predecessors ever were. The change from the individual-owned vessel to the multifarious corporation and stock-owned steamship, has had a tendency of late to place the master in the position of employee rather than that of employer. By this innovation he has not the same opportunity of laying aside sufficient means to take care of himself or his family, should accident befall him or should he live to the allotted years of three score and ten.

I ask you my brothers what have we in view before us? It is in reviewing this practical side of life that I appeal to your common sense and generous nature to unite, one and all, and with true appreciation and pride in wearing the title of ship master, let us join hand and hand to accomplish this grand object. The building and maintaining a home and safe retreat for the aged and worn-out members of our profession, where they may spend the last days of life's sunshine, feeling happily and snugly moored in their riverside home, is an object upon which we should all unite. Let us do this for the storm-tossed mariner who in his time did yeoman service in splicing together the fabric of our great national commerce.

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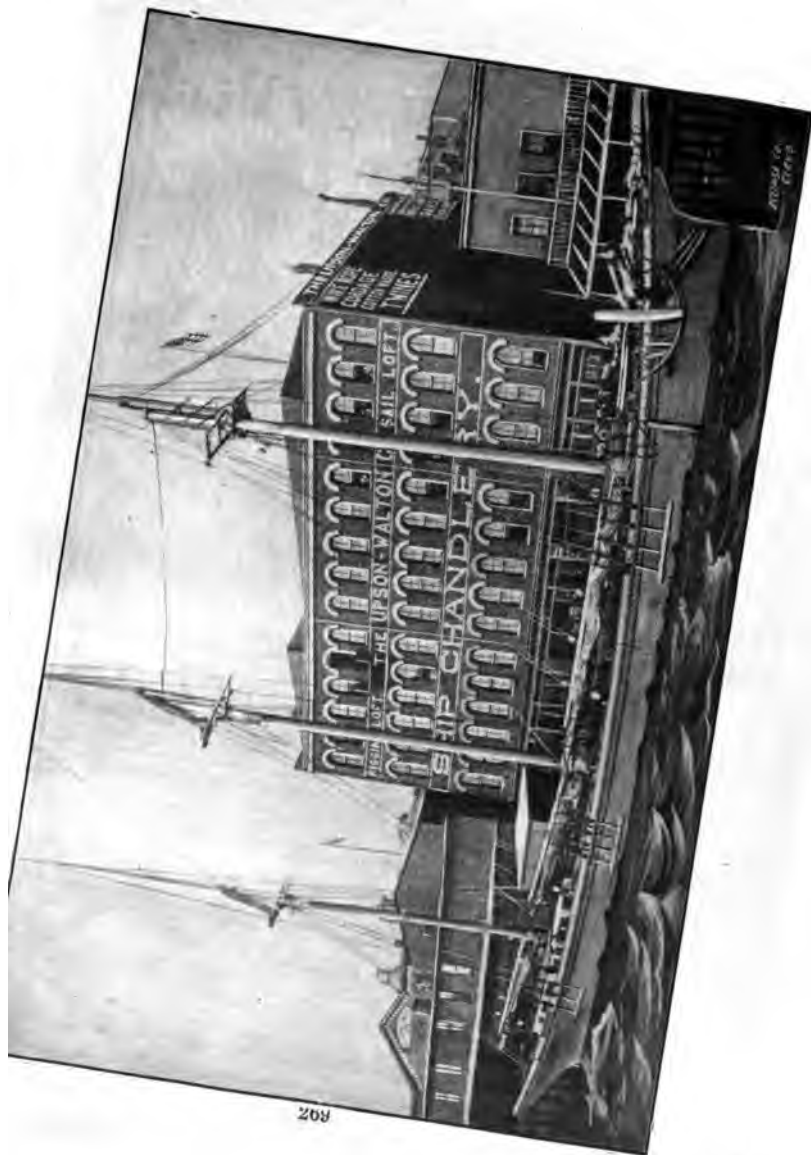
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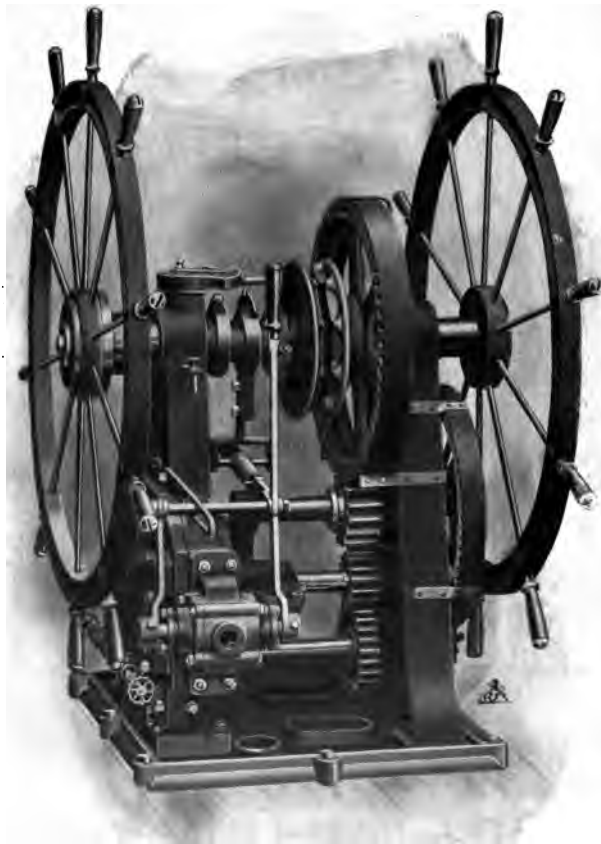
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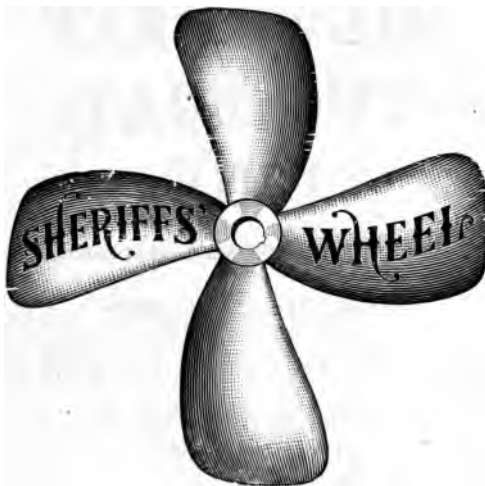
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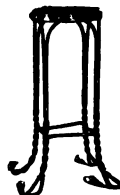
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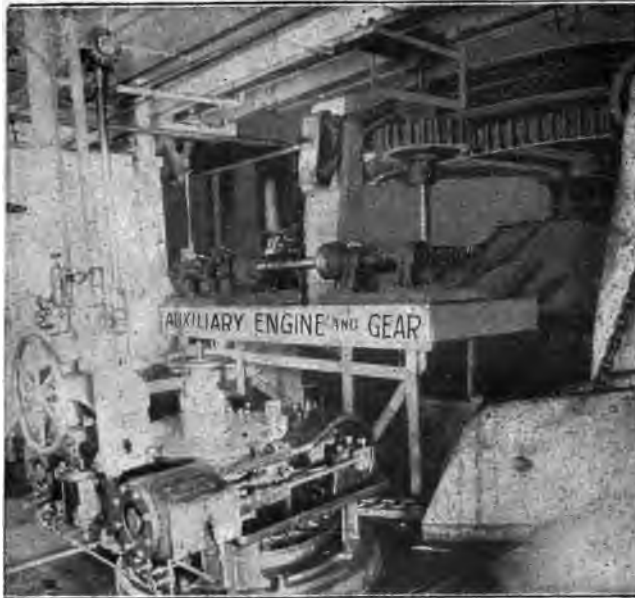
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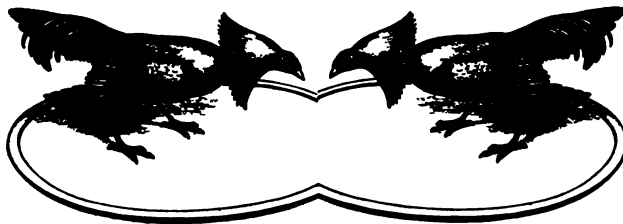


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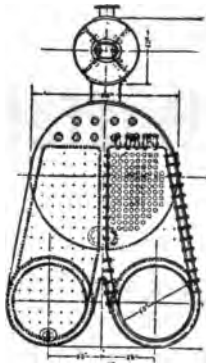
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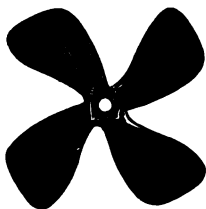
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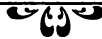
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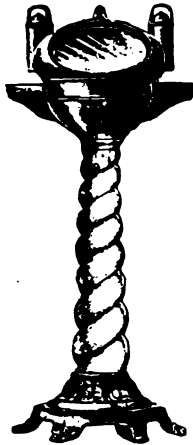
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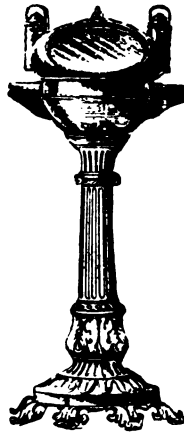
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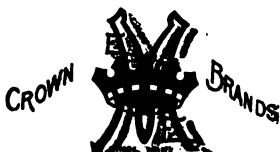
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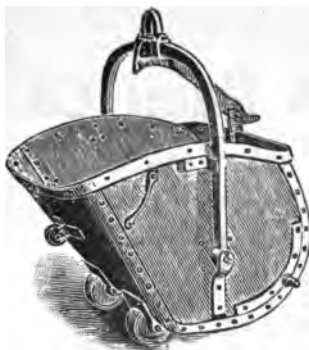


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